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# Annual Statistical Report

## AMERICAN
## IRON AND STEEL
## INSTITUTE
## 1986

AMERICAN IRON AND STEEL INSTITUTE
1000 16TH STREET, N.W., WASHINGTON, D.C. 20036

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## NOTES

D—Disclosure
P—Preliminary
R—Revised
n.a.—Not available
Net ton—2,000 pounds
Gross ton—2,240 pounds
( ) Indicates loss or negative number.
Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

# SELECTED HIGHLIGHTS
# THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a eight or ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there may be a difference in the universe of reporting companies for the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1985 and 1986 represents companies who in 1986 produced 77% of the reported raw steel production.

SELECTED STATISTICAL HIGHLIGHTS

# Table 1A

*Shipments, Apparent Supply, Imports & Employment*

(Thousands)

| | Steel Mill Products—Net Tons | | | | Imports as % of U.S. Apparent Steel Supply | | | | | Steel Employment (a) |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Total Net Shipments | Less Exports | Plus Imports | U.S. Apparent Steel Supply | Total | Japan | EEC | Canada | Other | Average No. of Employees |
| 1986 | 70,263 | 929 | 20,692 | 90,026 | 23.0 | 4.9 | 7.3 | 3.6 | 7.2 | 175 |
| 1985 | 73,043 | 932 | 24,256 | 96,367 | 25.2 | 6.2 | 7.2 | 3.0 | 8.8 | 208 |
| 1984 | 73,739 | 980 | 26,163 | 98,922 | 26.4 | 6.7 | 6.4 | 3.2 | 10.1 | 236 |
| 1983 | 67,584 | 1,199 | 17,070 | 83,455 | 20.5 | 5.1 | 4.9 | 2.9 | 7.6 | 243 |
| 1982 | 61,567 | 1,842 | 16,663 | 76,388 | 21.8 | 6.8 | 7.3 | 2.4 | 5.3 | 289 |
| 1981 | 88,450 | 2,904 | 19,898 | 105,444 | 18.9 | 5.9 | 6.1 | 2.7 | 4.2 | 391 |
| 1980 | 83,853 | 4,101 | 15,495 | 95,247 | 16.3 | 6.3 | 4.1 | 2.5 | 3.4 | 399 |
| 1979 | 100,262 | 2,818 | 17,518 | 114,962 | 15.2 | 5.5 | 4.7 | 2.0 | 3.0 | 453 |
| 1978 | 97,935 | 2,422 | 21,135 | 116,648 | 18.1 | 5.6 | 6.4 | 2.0 | 4.1 | 449 |
| 1977 | 91,147 | 2,003 | 19,307 | 108,451 | 17.8 | 7.2 | 6.3 | 1.7 | 2.6 | 452 |
| Details on Page | 28 | 38 | 48 | | 51 | 51 | 51 | 51 | 51 | 19 |

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

# Table 1B

*Raw Steel Data*

(Thousands of net tons)

| | | United States | | | | Percent of U.S. Production | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | By Type of Furnace | | | By Type Cast | |
| Year | World Production | Production | % of World | Capability | % of capability | OH | BOP | Elec. | Ingots | Continuous |
| 1986 | 784,800 | 81,606 | 10.4 | 127,900 | 63.8 | 4.1 | 58.7 | 37.2 | 44.7 | 55.2 |
| 1985 | 792,947[R] | 88,259 | 11.1 | 133,600 | 66.1 | 7.3 | 58.8 | 33.9 | 55.5 | 44.4 |
| 1984 | 782,590[R] | 92,528 | 11.8 | 135,300 | 68.4 | 9.0 | 57.1 | 33.9 | 60.3 | 39.6 |
| 1983 | 730,930 | 84,615 | 11.6 | 150,600 | 56.2 | 7.0 | 61.5 | 31.5 | 67.8 | 32.1 |
| 1982 | 710,738 | 74,577 | 10.5 | 154,000 | 48.4 | 8.2 | 60.7 | 31.1 | 70.9 | 29.0 |
| 1981 | 779,399 | 120,828 | 15.5 | 154,300 | 78.3 | 11.1 | 60.6 | 28.3 | 78.2 | 21.6 |
| 1980 | 790,419 | 111,835 | 14.2 | 153,700 | 72.8 | 11.7 | 60.4 | 27.9 | 79.5 | 20.3 |
| 1979 | 824,486 | 136,341 | 16.5 | 155,300 | 87.8 | 14.0 | 61.1 | 24.9 | 82.9 | 16.9 |
| 1978 | 790,607 | 137,031 | 17.3 | 157,900 | 86.8 | 15.6 | 60.9 | 23.5 | 84.6 | 15.2 |
| 1977 | 741,828 | 125,333 | 16.9 | 160,000 | 78.4 | 16.0 | 61.8 | 22.2 | 87.3 | 12.5 |
| Details on Page | 100 | 68 | 100 | | 71 | 68 | 68 | 68 | 69 | 69 |

## SELECTED FINANCIAL HIGHLIGHTS

# Table 1C

*Income Data*

**(Millions of Dollars)**

| | Total Corporation Results | | | | Steel Segment Results | | | |
|---|---|---|---|---|---|---|---|---|
| | | Net Income | | | | Net Income | | |
| Year | Net Sales | Amount | % of Net Sales | % of Equity† | Net Sales | Amount | % of Net Sales | % of Equity† |
| 1986 | $41,912 | $(6,094) | (14.5) | (43.5) | $24,891 | $(4,203) | (16.9) | (60.6) |
| 1985[R] | 49,506 | (1,016) | (2.1) | (6.7) | 28,272 | (1,834) | (6.5) | (19.5) |
| 1984 | 53,472 | (235) | (0.4) | (1.6) | 30,005 | (31) | (0.1) | (0.4) |
| 1983 | 45,974 | (2,603) | (5.7) | (13.4) | 24,463 | (2,231) | (9.1) | (19.8) |
| 1982 | 55,255 | (3,155) | (5.7) | (13.8) | 28,239 | (3,384) | (12.0) | (22.0) |
| 1981 | 64,013 | 3,258 | 5.1 | 16.2 | 43,109 | 1,653 | 3.8 | 11.4 |
| 1980 | 55,313 | 1,634 | 3.0 | 8.6 | 37,163 | 681 | 1.8 | 4.8 |
| 1979 | 55,790 | 1,410 | 2.5 | 7.8 | 40,373 | 806 | 2.0 | 5.8 |
| Details on Page: | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 |

†Based on stockholders' equity as of Dec. 31 of the prior year.

# Table 1D

*Cash Flow Data*

**(Millions of Dollars)**

| | Total Corporation Results | | | | Steel Segment Results | | | |
|---|---|---|---|---|---|---|---|---|
| | | Net Cash Provided (Used) from | | | | Net Cash Provided (Used) from | | |
| Year | Capital Expend. | Operations | Financing | Inc. (Dec.) In Cash & Mkt. Secs. | Capital Expend. | Operations | Financing | Inc. (Dec.) In Cash & Mkt. Secs. |
| 1986 | $1,925 | $ 2,158 | $ 2,430 | $4,588 | $ 863 | $ (982) | $ 797 | $ 185 |
| 1985[R] | 3,451 | 333 | (203) | 129 | 1,641 | (427) | 353 | (74) |
| 1984 | 2,351 | (196) | 136 | (60) | 1,203 | (428) | 296 | (132) |
| 1983 | 3,137 | (1,542) | 1,179 | (363) | 1,850 | (1,858) | 1,556 | (302) |
| 1982 | 4,325 | (8,739) | 6,300 | (2,439) | 2,258 | (1,990) | 1,766 | (224) |
| 1981 | 3,506 | 1,174 | 435 | 1,608 | 2,371 | 689 | (692) | (3) |
| 1980 | 3,665 | (472) | 578 | 106 | 2,651 | (748) | 602 | (146) |
| 1979 | 3,823 | (1,278) | 995 | (283) | 2,469 | (436) | 221 | (216) |
| Details on Page: | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 |

## FINANCIAL STATISTICS

Financial data for 1985 and 1986 includes companies which made up 77% of the reported total raw steel production of the entire industry in 1986. Other years are based on results of companies representing varying percentages of the entire industry.

# Table 2

## *Income Statement*
## *Total Corporation*

**(Millions of Dollars)**

| | 1986 | 1985[R] | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 |
|---|---|---|---|---|---|---|---|---|
| **REVENUES:** | | | | | | | | |
| Sales (Net billing value of products shipped and other services) | $41,911.5 | $49,505.9 | $53,472.2 | $45,973.8 | $55,255.3 | $64,012.6 | $55,312.9 | $55,789.8 |
| Interest, dividends and other income | 264.7 | 433.4 | 670.3 | 634.5 | 1,042.8 | 1,298.1 | 931.8 | 683.4 |
| **Total Revenue** | **42,176.2** | **49,939.3** | **54,142.5** | **46,608.3** | **56,298.1** | **65,310.7** | **56,244.7** | **56,473.2** |
| **COSTS:** | | | | | | | | |
| Employment Costs | 10,957.1 | 12,562.1 | 14,436.6 | 13,552.2 | 17,771.8 | 20,643.9 | 19,093.4 | 18,913.3 |
| Materials, supplies, freight and other services, etc | 26,443.4 | 30,855.7 | 32,821.9 | 28,766.9 | 35,919.0 | 37,671.1 | 32,184.6 | 32,185.9 |
| Depreciation, depletion and amortization | 2,686.2 | 2,709.1 | 2,559.1 | 2,342.7 | 2,562.4 | 2,178.6 | 2,023.5 | 1,924.3 |
| Interest and other financial costs | 1,527.7 | 1,691.0 | 2,059.1 | 1,675.6 | 1,794.3 | 938.1 | 934.0 | 809.4 |
| Taxes other than income | 1,494.8 | 1,698.2 | 1,700.2 | 1,600.8 | NA | NA | NA | NA |
| Loss or (gain) on sales of assets | (116.3) | (189.4) | (433.8) | (35.3) | 1,947.8 | (1,070.1) | (133.7) | 797.6 |
| Loss or (gain) on provision for costs attributable to shutdown of facilities | 690.8 | 974.0 | 249.2 | 1,696.3 | — | — | — | — |
| Unusual items | 4,896.3 | 181.8 | 438.2 | 39.3 | (44.1) | (28.5) | — | (21.4) |
| Taxes on income | (570.5) | 598.1 | 659.4 | (215.7) | (498.2) | 1,719.7 | 508.8 | 454.5 |
| **Total Costs** | **48,009.5** | **51,080.6** | **54,469.9** | **49,422.8** | **59,453.0** | **62,052.8** | **54,610.6** | **55,063.6** |
| Extraordinary and other items net of taxes | (260.1) | 125.2 | 112.3 | 211.4 | NA | NA | NA | NA |
| **Net Income** | **$ (6,093.5)** | **$ (1,016.0)** | **$ (235.1)** | **$ (2,603.1)** | **$ (3,154.9)** | **$ 3,257.9** | **$ 1,634.1** | **$ 1,409.6** |
| Percent return on Sales | (14.5) | (2.1) | (0.4) | (5.7) | (5.7) | 5.1 | 3.0 | 2.5 |
| Percent return on Stockholders' Equity * | (43.5) | (6.7) | (1.6) | (13.4) | (13.8) | 16.2 | 8.6 | 7.8 |

* Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.
MEMO: In 1986 reporting companies represent: 62.8 million net tons of raw steel production and 50.8 million net tons of shipments of finished steel products.

# Table 2A

*Income Statement*
*Steel Segment*

**(Millions of Dollars)**

| | 1986 | 1985[R] | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 |
|---|---|---|---|---|---|---|---|---|
| **REVENUES:** | | | | | | | | |
| Sales (Net billing value of products shipped and other services) | $24,891.3 | $28,272.3 | $30,005.2 | $24,462.8 | $28,238.6 | $43,109.3 | $37,162.7 | $40,373.1 |
| Interest, dividends and other income | 120.4 | 162.2 | 328.1 | 514.8 | 492.0 | 653.8 | 583.7 | 418.4 |
| **Total Revenue** | **25,011.7** | **28,434.4** | **30,333.3** | **24,977.6** | **28,730.6** | **43,763.1** | **37,746.4** | **40,791.5** |
| **COSTS:** | | | | | | | | |
| Employment Costs | 7,544.7 | 8,822.3 | 9,334.5 | 8,650.8 | 12,199.4 | 15,165.2 | 13,826.2 | 14,117.9 |
| Materials, supplies, freight and other services, etc. | 15,450.5 | 18,034.2 | 18,779.7 | 15,664.6 | 17,181.9 | 24,201.9 | 21,181.0 | 23,085.2 |
| Depreciation, depletion and amortization | 1,301.3 | 1,343.8 | 1,374.7 | 1,290.5 | 1,471.6 | 1,617.5 | 1,528.1 | 1,482.9 |
| Interest and other financial costs | 638.4 | 713.4 | 774.3 | 616.5 | 600.0 | 487.4 | 499.3 | 489.1 |
| Taxes other than income | 316.7 | 362.7 | 359.9 | 371.2 | NA | NA | NA | NA |
| Loss or (gain) on sales of assets | (45.3) | 3 | (309.9) | (20.0) | 2,021.4 | (132.0) | 34.7 | 759.9 |
| Loss or (gain) on provision for costs attributable to shutdown of facilities | 631.5 | 966.9 | 112.8 | 1,508.1 | — | — | — | — |
| Unusual items | 3,814.5 | 77.2 | 77.8 | 24.5 | (24.8) | (28.5) | — | — |
| Taxes on income | (449.8) | (35.4) | 21.0 | (720.4) | (1,335.1) | 798.2 | (3.9) | 50.8 |
| **Total Costs** | **29,202.5** | **30,285.4** | **30,524.8** | **27,385.8** | **32,114.4** | **42,109.7** | **37,065.4** | **39,985.8** |
| Extraordinary and other items net of taxes | (12.1) | 16.9 | 161.0 | 177.1 | NA | NA | NA | NA |
| **Net Income** | **$ (4,202.9)** | **$ (1,834.0)** | **$ (30.5)** | **$ (2,231.1)** | **$ (3,383.8)** | **$ 1,653.4** | **$ 681.0** | **$ 805.7** |
| Percent return on Sales | (16.9) | (6.5) | (0.1) | (9.1) | (12.0) | 3.8 | 1.8 | 2.0 |
| Percent return on Stockholders' Equity * | (60.6) | (19.5) | (0.4) | (19.8) | (22.0) | 11.4 | 4.8 | 5.8 |

* Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.
MEMO: In 1986 reporting companies represent 62.8 million net tons of raw steel production and 50.8 million net tons of shipments of finished steel products.

# Table 3

## *Balance Sheet*
## *Total Corporation*

**(Millions of Dollars)**

| ASSETS | 1986 | 1985[R] | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 |
|---|---|---|---|---|---|---|---|---|
| **Current Assets:** | | | | | | | | |
| Cash and marketable securities | $ 5,697.6 | $ 1,098.0 | $ 1,238.9 | $ 1,343.9 | $ 1,759.3 | $ 4,178.0 | $ 2,560.7 | $ 2,450.9 |
| Receivables, less allowances | 3,987.6 | 5,048.2 | 6,456.5 | 6,406.1 | 5,767.1 | 8,878.2 | 8,002.1 | 6,958.9 |
| Inventories | 5,179.3 | 6,399.8 | 7,540.4 | 7,117.8 | 8,489.6 | 8,608.2 | 7,560.7 | 7,664.0 |
| Other Current Assets | 346.1 | 389.4 | 536.8 | 316.9 | 365.5 | 282.4 | 332.8 | 218.2 |
| **Total Current Assets** | **15,210.6** | **12,935.4** | **15,772.6** | **15,184.7** | **16,381.5** | **21,946.8** | **18,456.3** | **17,292.0** |
| Long-term receivables & other investments | 2,330.5 | 2,245.2 | 3,639.3 | 2,664.5 | NA | NA | NA | NA |
| Fixed Assets | | | | | | | | |
| Property, plant & equipment | 52,590.9 | 54,730.7 | 52,517.5 | 50,525.8 | 56,044.6 | 48,683.4 | 46,654.3 | 43,759.4 |
| Less—Depreciation, depletion & amortization | 26,589.7 | 25,141.6 | 23,668.4 | 22,660.0 | 24,924.7 | 24,396.8 | 23,284.4 | 21,721.3 |
| Net Fixed Assets | 26,001.2 | 29,589.1 | 28,849.1 | 27,865.8 | 31,119.9 | 24,286.6 | 23,369.9 | 22,038.1 |
| Other Assets | 999.6 | 1,130.0 | 1,713.9 | 2,311.7 | 6,012.0 | 5,146.8 | 5,281.3 | 4,766.4 |
| **Total Assets** | **$44,541.9** | **$45,899.7** | **$49,974.9** | **$48,026.7** | **$53,513.4** | **$51,380.2** | **$47,107.5** | **$44,096.5** |
| **LIABILITIES AND STOCKHOLDERS' EQUITY** | | | | | | | | |
| Current Liabilities | | | | | | | | |
| Accounts Payable | $ 3,539.1 | $ 4,537.3 | $ 5,470.2 | $ 4,969.0 | $ NA | $ NA | $ NA | $ NA |
| Accrued taxes incl. Federal income taxes | 825.8 | 1,115.6 | 1,438.8 | 1,355.4 | NA | NA | NA | NA |
| Long-term debt maturing within one year | 3,581.5 | 542.1 | 1,248.3 | 614.5 | 501.3 | 492.5 | 344.0 | 383.4 |
| All other current liabilities | 3,169.0 | 3,992.5 | 4,221.3 | 4,353.3 | 10,812.1 | 11,728.4 | 10,719.9 | 9,692.9 |
| **Total Current Liabilities** | **11,115.4** | **10,187.5** | **12,378.6** | **11,292.2** | **11,313.4** | **12,220.9** | **11,063.9** | **10,076.3** |
| Long-term debt less amount maturing within one year | 10,925.6 | 13,541.2 | 13,983.0 | 14,443.1 | 15,832.0 | 9,934.8 | 10,355.5 | 9,659.1 |
| Deferred income tax | 914.8 | 1,596.0 | 1,203.0 | 896.3 | 1,994.3 | 2,941.7 | 2,004.6 | 1,877.0 |
| Liabilities attributable to shutdown of facilities | 1,690.0 | 2,400.2 | 2,366.2 | 2,296.1 | NA | NA | NA | NA |
| All other other long-term liabilities & reserves | 11,604.2 | 3,786.9 | 4,139.7 | 3,495.3 | 4,657.5 | 2,912.0 | 3,049.1 | 2,906.8 |
| Minority interest in companies not wholly owned | 22.4 | 24.9 | 48.5 | 57.8 | 267.6 | 469.8 | 482.3 | 466.2 |
| **Total Liabilities** | **36,272.4** | **31,536.7** | **34,124.0** | **32,480.8** | **34,064.8** | **28,479.2** | **26,955.4** | **24,985.4** |
| Redeemable preferred stock (RPS) | 371.0 | 366.2 | 573.7 | 501.1 | 20.8 | — | — | — |
| **Stockholders' Equity** | **7,898.5** | **13,996.8** | **15,277.2** | **15,044.8** | **19,427.8** | **22,901.0** | **20,152.1** | **19,111.1** |
| **Total Liabilities RPS and Stockholders' Equity** | **$44,541.9** | **$45,899.7** | **$49,974.9** | **$48,026.7** | **$53,513.4** | **$51,380.2** | **$47,107.5** | **$44,096.5** |
| Memo: LIFO inventory reserves included above | $ 2,501.6 | $ 3,591.6 | $ 4,304.7 | $ 3,235.7 | $ 6,474.0 | $ 7,333.9 | $ 6,911.5 | $ 6,333.7 |

# Table 3A

*Balance Sheet*
*Steel Segment*

**(Millions of Dollars)**

| ASSETS | 1986 | 1985[R] | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 |
|---|---|---|---|---|---|---|---|---|
| **Current Assets:** | | | | | | | | |
| Cash and marketable securities | $ 427.1 | $ 237.5 | $ 402.1 | $ 606.9 | $ 952.5 | $ 1,157.7 | $ 1,151.9 | $ 1,293.6 |
| Receivables, less allowances | 2,861.9 | 3,117.5 | 3,213.0 | 3,408.3 | 2,727.5 | 4,385.5 | 4,710.1 | 3,939.3 |
| Inventories | 3,045.8 | 3,546.2 | 4,216.5 | 3,320.7 | 4,034.4 | 5,379.4 | 4,693.6 | 5,039.6 |
| Other Current Assets | 129.6 | 116.8 | 198.8 | 204.7 | 226.5 | 193.7 | 263.3 | 161.0 |
| **Total Current Assets** | **6,464.4** | **7,018.0** | **8,030.4** | **7,540.6** | **7,940.9** | **11,116.3** | **10,818.9** | **10,433.5** |
| Long-term receivables & other investments | 728.9 | 903.1 | 1,047.5 | 1,700.0 | NA | NA | NA | NA |
| Fixed Assets: | | | | | | | | |
| Property, plant & equipment | 32,613.0 | 33,927.7 | 35,198.4 | 34,283.2 | 38,518.5 | 38,971.2 | 37,716.9 | 36,000.5 |
| Less—Depreciation, depletion & amortization | 19,184.4 | 18,236.3 | 18,589.0 | 18,401.8 | 20,681.5 | 20,768.4 | 19,976.2 | 19,163.4 |
| Net Fixed Assets | 13,428.6 | 15,691.4 | 16,609.4 | 15,881.4 | 17,837.0 | 18,202.8 | 17,740.7 | 16,837.1 |
| Other Assets | 353.6 | 337.6 | 499.6 | 349.3 | 2,101.3 | 2,376.7 | 2,210.6 | 2,001.7 |
| **Total Assets** | **$20,975.5** | **$23,950.1** | **$26,186.9** | **$25,471.3** | **$27,879.2** | **$31,695.8** | **$30,770.2** | **$29,272.3** |
| **LIABILITIES AND STOCKHOLDERS' EQUITY** | | | | | | | | |
| Current Liabilities: | | | | | | | | |
| Accounts Payable | $ 1,654.7 | $ 2,158.1 | $ 2,261.4 | $ 2,287.6 | $ NA | $ NA | $ NA | $ NA |
| Accrued taxes incl. Federal income taxes | 333.8 | 508.6 | 485.1 | 385.5 | NA | NA | NA | NA |
| Long-term debt maturing within one year | 378.2 | 294.4 | 571.4 | 255.9 | 197.8 | 266.5 | 128.1 | 163.5 |
| All other current liabilities | 1,728.9 | 2,564.7 | 2,392.0 | 2,726.8 | 5,136.4 | 6,418.7 | 6,442.7 | 6,049.1 |
| **Total Current Liabilities** | **4,095.6** | **5,525.8** | **5,709.9** | **5,655.8** | **5,334.2** | **6,685.2** | **6,570.8** | **6,212.6** |
| Long-term debt less amount maturing within one year | 5,403.9 | 6,874.6 | 6,380.0 | 7,208.2 | 7,817.9 | 6,163.7 | 6,822.5 | 5,988.4 |
| Deferred income tax | 178.2 | 188.2 | 277.1 | 264.2 | 750.2 | 1,696.4 | 1,128.6 | 978.2 |
| Liabilities attributable to shutdown of facilities | 1,465.7 | 2,089.3 | 2,019.7 | 2,085.7 | NA | NA | NA | NA |
| All other other long-term liabilities & reserves | 6,857.4 | 2,087.2 | 2,138.2 | 1,809.8 | 2,697.3 | 1,759.0 | 1,759.5 | 1,749.2 |
| Minority interest in companies not wholly owned | 14.8 | 17.4 | 22.8 | 18.2 | 19.5 | 30.9 | 31.1 | 35.0 |
| **Total Liabilities** | **18,015.6** | **16,782.5** | **16,547.7** | **17,041.9** | **16,619.1** | **16,335.2** | **16,312.5** | **14,963.4** |
| Redeemable preferred stock (RPS) | 226.6 | 226.5 | 228.2 | 228.3 | — | — | — | — |
| **Stockholders' Equity** | **2,733.3** | **6,941.1** | **9,411.0** | **8,201.1** | **11,260.1** | **15,360.6** | **14,457.7** | **14,308.9** |
| **Total Liabilities RPS and Stockholders' Equity** | **$20,975.5** | **$23,950.1** | **$26,186.9** | **$25,471.3** | **$27,879.2** | **$31,695.8** | **$30,770.2** | **$29,272.3** |
| Memo: LIFO inventory reserves included above | $ 2,196.2 | 3,026.8 | $ 3,497.6 | $ 2,750.6 | $ 5,101.7 | $ 6,067.1 | $ 5,800.8 | $ 5,115.0 |

# Table 4

## *Cash Flow Statement*
## *Total Corporation*

**(Millions of Dollars)**

| | 1986 | 1985[R] | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 |
|---|---|---|---|---|---|---|---|---|
| Cash Provided From Operations | | | | | | | | |
| Net Income | $ (6,075.5) | $ (1,034.6) | $ (237.3) | $ (2,652.9) | $ (3,176.3) | $ 3,242.1 | $ 1,610.1 | $ 1,360.2 |
| Depreciation | 2,685.6 | 2,709.0 | 2,557.9 | 2,344.7 | 2,572.0 | 2,197.2 | 2,042.5 | 1,944.1 |
| Deferred Income Taxes | (499.2) | 173.0 | 182.3 | (581.7) | (882.1) | 832.9 | 220.3 | 34.3 |
| Other noncash P&L items | 6,194.4 | 1,052.6 | 816.1 | 1,686.1 | 2,234.7 | 38.2 | 4.9 | 682.7 |
| Total from earnings | 2,305.4 | 2,899.9 | 3,319.0 | 796.2 | 748.3 | 6,310.4 | 3,877.8 | 4,021.3 |
| Changes in working capital | 913.4 | 771.8 | (717.5) | 148.0 | 1,383.2 | (696.6) | 50.2 | (736.5) |
| Cash provided from operations | 3,218.9 | 3,671.8 | 2,601.5 | 944.2 | 2,131.5 | 5,613.8 | 3,928.0 | 3,284.8 |
| Cash provided (used) for non operating units | (180.1) | (316.3) | (145.5) | (313.3) | 79.3 | (172.1) | (96.6) | (54.2) |
| Cash (used) for Dividends | (421.8) | (406.7) | (483.3) | (470.9) | (660.2) | (727.0) | (678.9) | (656.5) |
| Long Term Investments | | | | | | | | |
| Additions to plant and equipment | (1,925.2) | (3,450.6) | (2,350.8) | (3,137.4) | (4,324.9) | (3,506.3) | (3,665.0) | (3,822.7) |
| Disposals of plant and equipment | 1,773.3 | 635.5 | 680.6 | 516.2 | 1,058.8 | 322.9 | 300.2 | 196.0 |
| Other provided (used) | (306.9) | 199.1 | (498.7) | 918.9 | (7,023.0) | (357.5) | (259.7) | (225.5) |
| Cash (used) from operations | (458.8) | (2,616.1) | (2,168.9) | (1,702.3) | (10,289.1) | (3,540.9) | (3,624.5) | (3,852.2) |
| Net cash provided (used) from operations | 2,158.0 | 332.7 | (196.2) | (1,542.3) | (8,738.5) | 1,173.8 | (472.0) | (1,278.1) |
| Cash Provided From (Used For) Financing | | | | | | | | |
| Net Additions/Reduction In | | | | | | | | |
| Transfers (to) from corporate | — | — | — | — | — | — | — | — |
| Long term debt | (519.5) | (682.9) | (916.7) | 332.1 | 5,635.0 | (46.4) | 539.6 | 722.5 |
| Short term debt | 2,691.8 | 19.9 | 767.2 | (292.3) | 229.2 | 331.9 | (137.8) | 142.3 |
| Stock | 257.2 | 459.7 | 285.6 | 1,139.6 | 435.6 | 149.0 | 176.1 | 130.1 |
| Net cash Provided from (used for) financing | 2,429.5 | (203.3) | 136.1 | 1,179.4 | 6,299.8 | 434.5 | 577.9 | 994.9 |
| Increase (decrease) in cash and marketable securities | $ 4,587.6 | $ 129.4 | $ (60.1) | $ (362.9) | $ (2,438.7) | $ 1,608.3 | $ 105.9 | $ (283.2) |

# Table 4A

## *Cash Flow Statement*
## *Steel Segment*

**(Millions of Dollars)**

| | 1986 | 1985[R] | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 |
|---|---|---|---|---|---|---|---|---|
| Cash Provided From Operations | | | | | | | | |
| Net Income | $ (4,183.0) | $ (1,803.0) | $ (92.7) | $ (2,235.0) | $ (3,384.4) | $ 1,653.8 | $ 681.4 | $ 806.6 |
| Depreciation | 1,301.3 | 1,343.7 | 1,373.0 | 1,292.1 | 1,481.2 | 1,636.1 | 1,547.2 | 1,502.7 |
| Deferred Income Taxes | (486.1) | (55.4) | 42.8 | (722.9) | (854.4) | 762.9 | 255.8 | (144.6) |
| Other noncash P&L items | 4,604.2 | 1,017.0 | 156.2 | 1,366.2 | 2,036.6 | (39.8) | 8.2 | 677.5 |
| Total from earnings | 1,236.4 | 502.2 | 1,479.3 | (299.6) | (721.0) | 4,013.0 | 2,492.6 | 2,842.2 |
| Changes in working capital | 850.2 | 527.1 | (829.0) | (94.1) | 1,677.3 | (463.6) | 50.0 | (297.2) |
| Cash provided from operations | 2,086.6 | 1,029.4 | 650.3 | (393.7) | 956.3 | 3,549.4 | 2,542.6 | 2,545.0 |
| Cash provided (used) for non operating units | (134.8) | (115.3) | (145.6) | (160.6) | 63.3 | (161.2) | (83.6) | (45.1) |
| Cash (used) for Dividends | (119.5) | (138.7) | (201.5) | (203.3) | (413.8) | (774.9) | (714.6) | (521.3) |
| Long Term Investments | | | | | | | | |
| Additions to plant and equipment | (862.7) | (1,640.9) | (1,203.1) | (1,850.2) | (2,258.2) | (2,370.6) | (2,650.6) | (2,469.4) |
| Disposals of plant and equipment | 508.7 | 293.1 | 210.7 | 48.5 | 602.8 | 166.2 | 227.1 | 51.7 |
| Other provided (used) | (496.6) | 145.6 | 260.9 | 701.0 | (940.6) | 279.6 | (69.1) | 2.7 |
| Cash (used) from operations | (850.6) | (1,202.3) | (731.5) | (1,100.7) | (2,596.0) | (1,924.8) | (2,492.6) | (2,415.0) |
| Net cash provided (used) from operations | 981.6 | (426.9) | (428.3) | (1,858.3) | (1,990.2) | 688.5 | (748.2) | (436.4) |
| Cash Provided From (Used For) Financing | | | | | | | | |
| Net Additions/Reduction In: | | | | | | | | |
| Transfers (to) from corporate | (495.6) | (299.8) | (435.4) | 46.5 | (242.6) | (186.4) | (87.5) | (94.5) |
| Long term debt | 12.3 | 504.4 | 62.4 | 524.1 | 1,814.7 | (638.4) | 805.8 | 244.1 |
| Short term debt | (405.5) | (15.0) | 524.7 | 51.3 | 106.7 | 121.3 | (179.5) | 51.8 |
| Stock | 91.9 | 162.9 | 144.4 | 934.1 | 87.2 | 11.5 | 63.3 | 19.1 |
| Net cash Provided from (used for) financing | (797.0) | 352.5 | 296.1 | 1,556.0 | 1,766.0 | (692.0) | 602.1 | 220.5 |
| Increase (decrease) in cash and marketable securities | 184.7 | (74.4) | $ (132.2) | $ (302.3) | $ (224.2) | $ (3.5) | $ (146.1) | $ (215.9) |
| MEMO: | | | | | | | | |
| Capital expenditures for environmental facilities | $70.8 | $120.2 | $137.7 | $142.9 | $264.5 | $495.8 | $518.0 | $650.8 |

## EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, employment cost, payroll cost per hour and employment cost per hour as shown on tables 5 and 6 cover those employees engaged in the operation of coke ovens, blast furnaces, steelmaking furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 80% of 1986 total raw steel production.

Indexes on output per manhour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

# Table 5

*Total Employment Cost per Hour Worked—Wage Employees*

**(Covering those employees engaged in the production of iron and steel products)**

| Year | Pay for Hours Worked | | | | | | Memo | Other Payroll Costs | | | | | | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Straight Time | | | | | Subtotal | | | | | | | | |
| | Regular (1) | Shift Differential (2) | Sunday Premium (3) | Overtime Premium (4) | Premium For Work On Holidays (5) | Pay For Hours Worked (6) | Average Hourly Earnings In Steel (BLS) (7) | Pay for Holidays Not Worked (8) | Vacation Pay (9) | All Other (10) | Total Payroll Cost Per Hour (11) | Employee* Benefits Cost Per Hour (12) | Total Employment Cost Per Hour (13) | |
| 1986 | $13.224 | $.157 | $.294 | $.671 | $.284 | $14.630 | $14.53 | $.301 | $1.109 | $.179 | $16.219 | $7.023 | $23.242 | 1986 |
| 1985 | 13.023 | .157 | .244 | .574 | .274 | 14.272 | 13.98 | .339 | 1.269 | .117 | 15.997 | 6.815 | 22.812 | 1985 |
| 1984 | 12.570 | .158 | .234 | .514 | .255 | 13.731 | 13.53 | .312 | 1.135 | .165 | 15.343 | 5.955 | 21.298 | 1984 |
| 1983 | 12.548 | .156 | .255 | .409 | .259 | 13.627 | 13.40 | .366 | .968 | .133 | 15.094 | 7.119 | 22.213 | 1983 |
| 1982 | 13.012 | .157 | .375 | .276 | .235 | 14.055 | 13.96 | .499 | 2.165 | .089 | 16.808 | 6.973 | 23.781 | 1982 |
| 1981 | 12.092 | .171 | .434 | .432 | .298 | 13.427 | 13.11 | .350 | 1.601 | .071 | 15.449 | 4.709 | 20.158 | 1981 |
| 1980 | 10.971 | .135 | .377 | .336 | .295 | 12.114 | 11.84 | .333 | 1.574 | .156 | 14.177 | 4.274 | 18.451 | 1980 |
| 1979 | 9.822 | .121 | .368 | .427 | .281 | 11.019 | 10.77 | .247 | 1.230 | .055 | 12.551 | 3.370 | 15.921 | 1979 |
| 1978 | 8.890 | .120 | .333 | .391 | .242 | 9.976 | 9.70 | .194 | 1.051 | .049 | 11.270 | 3.033 | 14.303 | 1978 |
| 1977 | 8.029 | .117 | .280 | .294 | .193 | 8.913 | 8.67 | .200 | 1.015 | .123 | 10.251 | 2.785 | 13.036 | 1977 |

*Includes cost for retired employees as well as active

# Table 6

*Number of Employees, Hours Worked and Employment Cost*

**(Covering those employees engaged in the production and sale of iron and steel products)**

| Year | Employees Receiving Wages | | | | | Employees Receiving Salaries | | | All Employees Receiving Wages and Salaries | | | | | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average Number of Employees | Total Hours Worked (000) | Avg. Hrs. Worked Per Week Per Employee | Employment Cost (millions) | Total Employment Cost Per Hour | Average Number of Employees | Total Hours Worked (000) | Employment Cost (Millions) | Average Number of Employees | Total Hours Worked (000) | Avg. Hrs. Worked Per Week Per Employee | Employment Cost (Millions) | Total Employment Cost Per Hour | |
| 1986 | 128,418 | 259,173 | 38.7 | $6,023.8 | $23.242 | 46,365 | 96,719 | $2,362.9 | 174,783 | 355,892 | 39.1 | $8,386.7 | $23.565 | 1986 |
| 1985 | 150,906 | 300,456 | 38.2 | 6,854.1 | 22.812 | 57,262 | 118,292 | 2,887.0 | 208,168 | 418,747 | 38.6 | 9,741.1 | 23.262 | 1985 |
| 1984 | 170,694 | 339,228 | 38.0 | 7,224.9 | 21.298 | 65,308 | 134,838 | 3,119.5 | 236,002 | 474,067 | 38.4 | 10,344.4 | 21.821 | 1984 |
| 1983 | 168,852 | 324,997 | 36.9 | 7,219.1 | 22.213 | 73,893 | 149,814 | 3,459.4 | 242,745 | 474,811 | 37.5 | 10,678.5 | 22.490 | 1983 |
| 1982 | 198,477 | 345,093 | 33.3 | 8,206.6 | 23.781 | 90,960 | 180,535 | 4,197.9 | 289,437 | 525,628 | 34.8 | 12,404.5 | 23.599 | 1982 |
| 1981 | 286,219 | 543,324 | 36.4 | 10,952.4 | 20.158 | 104,695 | 209,373 | 4,626.7 | 390,914 | 752,697 | 36.9 | 15,579.1 | 20.698 | 1981 |
| 1980 | 291,483 | 544,220 | 35.7 | 10,041.6 | 18.451 | 107,346 | 213,575 | 4,196.1 | 398,829 | 757,795 | 36.3 | 14,237.7 | 18.788 | 1980 |
| 1979 | 341,931 | 669,045 | 37.5 | 10,651.8 | 15.921 | 111,250 | 225,033 | 3,996.0 | 453,181 | 894,078 | 37.8 | 14,647.8 | 16.383 | 1979 |
| 1978 | 339,155 | 669,720 | 37.9 | 9,578.8 | 14.303 | 110,042 | 222,462 | 3,600.1 | 449,197 | 892,182 | 38.1 | 13,178.9 | 14.771 | 1978 |
| 1977 | 337,396 | 645,853 | 36.7 | 8,419.1 | 13.036 | 114,992 | 230,051 | 3,388.0 | 452,388 | 875,904 | 37.1 | 11,807.1 | 13.480 | 1977 |

Memo: Net shipments (thousand net tons) for companies reporting employment data are as follows: 1986—54,352; 1985—60,482; 1984—62,158; 1983—57,139; 1982—51,825.

# Table 7

## *BLS Index of Output Per Man-hour in the Steel Industry*

**(All Employees)**

| Year | 1977 = 100 |
|---|---|
| 1977 | 100.0 |
| 1978 | 108.3 |
| 1979 | 106.9 |
| 1980 | 102.9 |
| 1981 | 112.0 |
| 1982 | 90.9 |
| 1983 | 116.8 |
| 1984[P] | 131.3 |
| 1985[P] | 138.5 |
| 1986[P] | 137.4 |
| Average Annual Increase* 1977–1986 | 3.7 |

**Based on least squares method.*

*Source:* United States Department of Labor, Bureau of Labor Statistics

*NOTE:* Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

# Table 8

## *Occupational Injury/Illness*

**(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 76% of total 1986 raw steel production)**

| | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| 1. Aggregate number of man-hours (millions) | 330 | 402 | 462 | 468 | 515 |
| 2. OSHA recordable injuries/illnesses: | | | | | |
| a. Fatalities | 22 | 16 | 21 | 25 | 30 |
| b. Lost workday cases | 4,293 | 4,448 | 5,090 | 4,587 | 4,441 |
| c. Other medical treatment cases | 9,240 | 10,037 | 11,180 | 11,232 | 13,363 |
| d. **Total** (2a through 2c) | **13,555** | **14,501** | **16,291** | **15,844** | **17,834** |
| 3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked) | 8.217 | 7.211 | 7.054 | 6.773 | 6.929 |
| 4. OSHA workdays lost (thousands) | 147 | 135 | 145 | 126 | 141 |
| 5. Severity rate (days lost per 200,000 man-hours worked) | 89 | 67 | 63 | 54 | 55 |

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.
The U.S. Department of Labor, Bureau of Labor Statistics issued revised record keeping guidelines for Occupational Injury and Illness effective April 1986.
Some reporting companies have issued their 1986 figures to reflect the new guidelines; therefore, results may not be comparable to past years.

# SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

# Table 9

*Shipments of Steel Mill Products—1986*
*All Grades—(Carbon, Alloy and Stainless)*

(Net tons)

| Steel Products | Total Gross Shipments | Less Shipments to Reporting Companies | Total Net Shipments | Percent of Total Net Shipments |
|---|---|---|---|---|
| Ingots and steel castings | 307,212 | 63,601 | 243,611 | 0.3 |
| Blooms, slabs, billets | 1,529,861 | 288,223 | 1,241,638 | 1.8 |
| Skelp | 4,997 | — | 4,997 | — |
| Wire rods | 3,609,375 | 145,548 | 3,463,827 | 4.9 |
| **Total Semi-Finished** | **5,451,445** | **497,372** | **4,954,073** | **7.1** |
| Structural shapes (3" & over) | 4,232,913 | | 4,232,913 | 6.0 |
| Steel piling | 294,719 | | 294,719 | 0.4 |
| Plates | 3,575,810 | 11,004 | 3,564,806 | 5.1 |
| **Total Shapes and Plates** | **8,103,442** | **11,004** | **8,092,438** | **11.5** |
| Rails—Standard (over 60 lbs.) | 444,468 | — | 444,468 | 0.6 |
| —All other | 16,540 | — | 16,540 | — |
| Railroad accessories | 101,071 | — | 101,071 | 0.1 |
| Wheels (rolled and forged) | 50,127 | — | 50,127 | 0.1 |
| Axles | 27,991 | — | 27,991 | — |
| **Total Rails and Accessories** | **640,197** | — | **640,197** | **0.9** |
| Bars—Hot rolled | 6,213,310 | 565,683 | 5,647,627 | 8.0 |
| —Bar-Size light shapes | 911,560 | 79 | 911,481 | 1.3 |
| —Reinforcing | 4,298,822 | — | 4,298,822 | 6.1 |
| —Cold finished | 1,257,967 | 530 | 1,257,437 | 1.8 |
| Tool steel | 56,809 | 1,034 | 55,775 | 0.1 |
| **Total Bars and Tool Steel** | **12,738,468** | **567,326** | **12,171,142** | **17.3** |

# Table 9 *(Continued)*

*Shipments of Steel Mill Products—1986*
*All Grades—(Carbon, Alloy and Stainless)*

(Net tons)

| Steel Products | Total Gross Shipments | Less Shipments to Reporting Companies | Total Net Shipments | Percent of Total Net Shipments |
|---|---|---|---|---|
| Pipe and tubing—Standard | 723,640 | 13,924 | 709,716 | 1.0 |
| —Oil country goods | 484,779 | 2,058 | 482,721 | 0.7 |
| —Line | 604,062 | — | 604,062 | 0.9 |
| —Mechanical | 768,049 | 19,610 | 748,439 | 1.1 |
| —Pressure | 72,130 | 418 | 71,712 | 0.1 |
| —Structural | 177,568 | — | 177,568 | 0.3 |
| —Stainless | 43,363 | 1,123 | 42,240 | 0.1 |
| **Total Pipe and Tubing** | **2,873,591** | **37,133** | **2,836,458** | **4.0** |
| Wire—Drawn | 802,538 | 279 | 802,259 | 1.1 |
| —Nails and staples | 204,896 | — | 204,896 | 0.3 |
| —Barbed and twisted | 40,679 | — | 40,679 | 0.1 |
| —Woven wire fence | 11,594 | — | 11,594 | — |
| —Bale ties and baling wire | 20,899 | — | 20,899 | — |
| **Total Wire and Wire Products** | **1,080,606** | **279** | **1,080,327** | **1.5** |
| Black plate | 216,280 | 6 | 216,274 | 0.3 |
| Tin plate | 2,581,192 | — | 2,581,192 | 3.7 |
| Tin free steel | 935,331 | — | 935,331 | 1.3 |
| Tin mill products—All other | 69,146 | — | 69,146 | 0.1 |
| **Total Tin Mill Products** | **3,801,949** | **6** | **3,801,943** | **5.4** |
| Sheets—Hot rolled | 13,324,002 | 1,157,063 | 12,166,939 | 17.3 |
| —Cold rolled | 13,299,696 | 49,540 | 13,250,156 | 18.9 |
| Sheets & strip—Galvanized—Hot dipped | 7,236,508 | 12,188 | 7,224,320 | 10.3 |
| —Electrolytic | 898,018 | — | 898,018 | 1.3 |
| —All other metallic coated | 1,176,584 | — | 1,176,584 | 1.7 |
| —Electrical | 425,354 | 9,776 | 415,578 | 0.6 |
| Strip—Hot rolled | 762,399 | 127,355 | 635,044 | 0.9 |
| —Cold rolled | 924,605 | 5,043 | 919,562 | 1.3 |
| **Total Sheets and Strip** | **38,047,166** | **1,360,965** | **36,686,201** | **52.2** |
| **Total Shipments** | **72,736,864** | **2,474,085** | **70,262,779** | **100.0** |

# Table 10

*Shipments of Steel Mill Products—1986*
*By Grades—(Carbon, Alloy and Stainless)*

**(Net tons)**

| Steel Products | Carbon | % | Alloy | % | Stainless | % | Total | % |
|---|---|---|---|---|---|---|---|---|
| Ingots and steel castings | 72,859 | 0.1 | 162,112 | 2.5 | 8,640 | 0.7 | 243,611 | 0.3 |
| Blooms, slabs, billets | 909,580 | 1.5 | 291,111 | 4.4 | 40,947 | 3.4 | 1,241,638 | 1.8 |
| Skelp | 4,997 | — | — | — | — | 0.0 | 4,997 | 0.0 |
| Wire rods | 3,380,095 | 5.4 | 47,333 | 0.7 | 36,399 | 3.1 | 3,463,827 | 4.9 |
| **Total Semi-Finished** | **4,367,531** | **7.0** | **500,556** | **7.6** | **85,986** | **7.2** | **4,954,073** | **7.1** |
| Structural shapes (3" & over) | 3,786,805 | 6.1 | 446,108 | 6.8 | — | — | 4,232,913 | 6.0 |
| Steel piling | 263,962 | 0.4 | 30,757 | 0.5 | — | — | 294,719 | 0.4 |
| Plates | 2,506,259 | 4.0 | 942,688 | 14.4 | 115,859 | 9.8 | 3,564,806 | 5.1 |
| **Total Shapes and Plates** | **6,557,026** | **10.5** | **1,419,553** | **21.7** | **115,859** | **9.8** | **8,092,438** | **11.5** |
| Rails | | | | | | | | |
| Standard (over 60 lbs.) | 416,450 | 0.7 | 28,018 | 0.4 | — | — | 444,468 | 0.6 |
| All other | 16,540 | — | — | — | — | — | 16,540 | — |
| Railroad accessories | 101,071 | 0.2 | — | — | — | — | 101,071 | 0.1 |
| Wheels (rolled and forged) | 50,127 | 0.1 | — | — | — | — | 50,127 | 0.1 |
| Axles | 27,991 | — | — | — | — | — | 27,991 | — |
| **Total Rails and Accessories** | **612,179** | **1.0** | **28,018** | **0.4** | **—** | **—** | **640,197** | **0.9** |
| Bars | | | | | | | | |
| Hot rolled | 4,238,569 | 6.8 | 1,372,263 | 20.9 | 36,795 | 3.1 | 5,647,627 | 8.0 |
| Bar-size light shapes | 911,481 | 1.5 | (Included in hot rolled bars) | | | | 911,481 | 1.3 |
| Reinforcing | 4,268,223 | 6.8 | 30,599 | 0.5 | — | — | 4,298,822 | 6.1 |
| Cold finished | 1,008,197 | 1.6 | 167,011 | 2.5 | 82,229 | 6.9 | 1,257,437 | 1.8 |
| Tool steel | — | — | 55,775 | 0.9 | — | — | 55,775 | 0.1 |
| **Total Bars and Tool Steel** | **10,426,470** | **16.7** | **1,625,648** | **24.8** | **119,024** | **10.0** | **12,171,142** | **17.3** |
| Pipe and tubing | | | | | | | | |
| Standard | 706,327 | 1.1 | 3,389 | 0.1 | — | — | 709,716 | 1.0 |
| Oil country goods | 414,164 | 0.7 | 68,557 | 1.0 | — | — | 482,721 | 0.7 |
| Line | 435,904 | 0.7 | 168,158 | 2.6 | — | — | 604,062 | 0.8 |
| Mechanical | 492,331 | 0.8 | 256,108 | 3.9 | — | — | 748,439 | 1.1 |
| Pressure | 50,670 | 0.1 | 21,042 | 0.3 | — | — | 71,712 | 0.1 |
| Structural | 169,741 | 0.3 | 7,827 | 0.1 | — | — | 177,568 | 0.3 |
| Stainless | — | — | — | — | 42,240 | 3.6 | 42,240 | 0.1 |
| **Total Pipe and Tubing** | **2,269,137** | **3.6** | **525,081** | **8.0** | **42,240** | **3.6** | **2,836,458** | **4.0** |

# Table 10 *(continued)*

*Shipments of Steel Mill Products—1986*
*By Grades—(Carbon, Alloy and Stainless)*

**(Net tons)**

| Steel Products | Carbon | % | Alloy | % | Stainless | % | Total | % |
|---|---|---|---|---|---|---|---|---|
| Wire: | | | | | | | | |
| Drawn | 759,828 | 1.2 | 17,776 | 0.3 | 24,655 | 2.1 | 802,259 | 1.1 |
| Nails and staples | 204,896 | 0.3 | — | — | — | — | 204,896 | 0.3 |
| Barbed and twisted | 40,679 | 0.1 | — | — | — | — | 40,679 | 0.1 |
| Woven wire fence | 11,594 | — | — | — | — | — | 11,594 | 0.0 |
| Bale ties and baling wire | 20,899 | — | — | — | — | — | 20,899 | 0.0 |
| **Total Wire and Wire Products** | **1,037,896** | **1.7** | **17,776** | **0.3** | **24,655** | **2.1** | **1,080,327** | **1.5** |
| Black plate | 216,274 | 0.3 | — | — | — | — | 216,274 | 0.3 |
| Tin plate | 2,581,192 | 4.1 | — | — | — | — | 2,581,192 | 3.7 |
| Tin free Steel | 935,331 | 1.5 | — | — | — | — | 935,331 | 1.3 |
| Tin mill products—All other | 69,146 | 0.1 | — | — | — | — | 69,146 | 0.1 |
| **Total Tin Mill Products** | **3,801,943** | **6.1** | **—** | **—** | **—** | **—** | **3,801,943** | **5.4** |
| Sheets: | | | | | | | | |
| Hot rolled | 10,885,163 | 17.4 | 1,228,384 | 18.7 | 53,392 | 4.5 | 12,166,939 | 17.3 |
| Cold rolled | 12,433,279 | 19.9 | 253,421 | 3.9 | 563,456 | 47.5 | 13,250,156 | 18.9 |
| Sheets and strip: | | | | | | | | |
| Galvanized: | | | | | | | | |
| Hot dipped | 6,866,699 | 11.0 | 357,621 | 5.5 | — | — | 7,224,320 | 10.3 |
| Electrolytic | 898,018 | 1.4 | — | — | — | — | 898,018 | 1.3 |
| All other metallic coated | 1,110,814 | 1.8 | 65,770 | 1.0 | — | — | 1,176,584 | 1.7 |
| Electrical | 26,688 | — | 388,890 | 5.9 | — | — | 415,578 | 0.6 |
| Strip: | | | | | | | | |
| Hot rolled | 537,730 | 0.9 | 92,746 | 1.4 | 4,568 | 0.4 | 635,044 | 0.9 |
| Cold rolled | 689,010 | 1.1 | 52,566 | 0.8 | 177,986 | 15.0 | 919,562 | 1.3 |
| **Total Sheets and Strip** | **33,447,401** | **53.5** | **2,439,398** | **37.2** | **799,402** | **67.3** | **36,686,201** | **52.2** |
| **Total Net Shipments** | **62,519,583** | **100.0** | **6,556,030** | **100.0** | **1,187,166** | **100.0** | **70,262,779** | **100.0** |
| Shipments to reporting companies | 2,189,466 | — | 174,115 | — | 110,504 | — | 2,474,085 | — |
| **Total Gross Shipments** | **64,709,049** | **—** | **6,730,145** | **—** | **1,297,670** | **—** | **72,736,864** | **—** |

# Table 11

## *Net Shipments of Steel Mill Products—All Grades*

**(Thousands of net tons)**

| Steel Products | 1986 | | 1985 | | 1984 | | 1983 | | 1982 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Ingots and steel castings | 244 | 0.3 | 256 | 0.4 | 275 | 0.4 | 238 | 0.4 | 246 | 0.4 |
| Blooms, slabs and billets | 1,242 | 1.8 | 1,118 | 1.5 | 1,031 | 1.4 | 760 | 1.1 | 1,035 | 1.7 |
| Skelp | 5 | ... | 9 | ... | 11 | ... | 5 | ... | 2 | ... |
| Wire rods | 3,464 | 4.9 | 2,962 | 4.0 | 3,090 | 4.2 | 2,857 | 4.2 | 2,411 | 3.9 |
| Structural shapes (3" & over) | 4,233 | 6.0 | 4,373 | 6.0 | 3,868 | 5.2 | 3,364 | 5.0 | 3,313 | 5.4 |
| Steel piling | 295 | 0.4 | 326 | 0.5 | 288 | 0.4 | 258 | 0.4 | 250 | 0.4 |
| Plates | 3,565 | 5.1 | 4,327 | 5.9 | 4,339 | 5.9 | 3,816 | 5.6 | 4,146 | 6.7 |
| Rails—Standard (over 60 lbs.) | 444 | 0.6 | 579 | 0.9 | 933 | 1.3 | 611 | 0.9 | 498 | 0.8 |
| —All other | 17 | ... | 25 | ... | 32 | ... | 23 | ... | 19 | ... |
| Railroad accessories | 101 | 0.1 | 121 | 0.2 | 182 | 0.3 | 177 | 0.3 | 157 | 0.3 |
| Wheels (rolled and forged) | 50 | 0.1 | 68 | 0.1 | 59 | 0.1 | 52 | 0.1 | 72 | 0.1 |
| Axles | 28 | ... | 33 | 0.1 | 33 | ... | 21 | ... | 36 | 0.1 |
| Bars—Hot rolled | 5,648 | 8.0 | 5,698 | 7.8 | 6,070 | 8.2 | 5,129 | 7.6 | 4,757 | 7.7 |
| —Bar-Size light shapes | 911 | 1.3 | 1,329 | 1.8 | 1,184 | 1.6 | 1,070 | 1.6 | 948 | 1.5 |
| —Reinforcing | 4,299 | 6.1 | 4,326 | 5.9 | 4,432 | 6.0 | 4,275 | 6.3 | 4,049 | 6.6 |
| —Cold finished | 1,257 | 1.8 | 1,255 | 1.7 | 1,484 | 2.0 | 1,179 | 1.7 | 1,015 | 1.7 |
| Tool steel | 56 | 0.1 | 60 | 0.1 | 61 | 0.1 | 46 | 0.1 | 44 | 0.1 |
| Pipe and tubing—Standard | 710 | 1.0 | 855 | 1.1 | 743 | 1.0 | 812 | 1.2 | 962 | 1.5 |
| —Oil country goods | 483 | 0.7 | 1,299 | 1.8 | 1,406 | 1.9 | 678 | 1.0 | 1,759 | 2.9 |
| —Line | 604 | 0.9 | 775 | 1.1 | 775 | 1.0 | 623 | 0.9 | 1,093 | 1.8 |
| —Mechanical | 748 | 1.1 | 812 | 1.1 | 940 | 1.3 | 748 | 1.1 | 762 | 1.2 |
| —Pressure | 72 | 0.1 | 87 | 0.1 | 89 | 0.1 | 88 | 0.1 | 108 | 0.2 |
| —Structural | 177 | 0.3 | 219 | 0.3 | 270 | 0.4 | 238 | 0.4 | 301 | 0.5 |
| —Stainless | 42 | 0.1 | 49 | 0.1 | 52 | 0.1 | 57 | 0.1 | 41 | 0.1 |
| Wire—Drawn | 802 | 1.1 | 874 | 1.2 | 963 | 1.3 | 1,010 | 1.5 | 1,003 | 1.6 |
| —Nails and staples | 205 | 0.3 | 170 | 0.2 | 147 | 0.2 | 163 | 0.2 | 123 | 0.2 |
| —Barbed and twisted | 41 | 0.1 | 38 | 0.1 | 52 | 0.1 | 98 | 0.1 | 65 | 0.1 |
| —Woven wire fence | 11 | | 20 | | 26 | | 49 | 0.1 | 74 | 0.1 |
| —Bale ties and baling wire | 21 | | 34 | 0.1 | 35 | 0.1 | 39 | 0.1 | 43 | 0.1 |

# Table 11 *(continued)*

## *Net Shipments of Steel Mill Products—All Grades*

**(Thousands of net tons)**

| | 1986 | | 1985 | | 1984 | | 1983 | | 1982 | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Products** | **Tons** | **%** | **Tons** | **%** | **Tons** | **%** | **Tons** | **%** | **Tons** | **%** |
| Black plate | 216 | 0.3 | 215 | 0.3 | 286 | 0.4 | 352 | 0.5 | 319 | 0.5 |
| Tin plate | 2,581 | 3.7 | 2,611 | 3.6 | 2,765 | 3.7 | 2,925 | 4.4 | 3,018 | 4.9 |
| Tin free Steel | 935 | 1.3 | 889 | 1.2 | 945 | 1.3 | 962 | 1.4 | 918 | 1.5 |
| Tin mill products—All other | 69 | 0.1 | 58 | 0.1 | 66 | 0.1 | 69 | 0.1 | 66 | 0.1 |
| Sheets—Hot rolled | 12,167 | 17.3 | 12,952 | 17.7 | 13,133 | 17.8 | 11,619 | 17.2 | 9,052 | 14.7 |
| —Cold rolled | 13,250 | 18.9 | 13,574 | 18.6 | 13,664 | 18.5 | 13,781 | 20.4 | 11,132 | 18.1 |
| Sheets and strip—Galvanized—Hot dipped | 7,224 | 10.3 | 6,850 | 9.4 | 6,100 | 8.3 | 5,793 | 8.6 | 4,878 | 7.9 |
| —Electrolytic | 898 | 1.3 | 697 | 0.9 | 659 | 0.9 | 641 | 0.9 | 491 | 0.8 |
| —All other metallic coated | 1,177 | 1.7 | 1,122 | 1.5 | 1,109 | 1.5 | 946 | 1.4 | 694 | 1.1 |
| —Electrical | 416 | 0.6 | 413 | 0.6 | 490 | 0.7 | 458 | 0.7 | 445 | 0.7 |
| Strip—Hot rolled | 635 | 0.9 | 586 | 0.8 | 650 | 0.9 | 633 | 0.9 | 498 | 0.8 |
| —Cold rolled | 920 | 1.3 | 876 | 1.2 | 1,002 | 1.3 | 920 | 1.4 | 724 | 1.2 |
| **Total Steel Mill Products** | **70,263** | **100.0** | **73,043** | **100.0** | **73,739** | **100.0** | **67,583** | **100.0** | **61,567** | **100.0** |
| Carbon | 62,520 | 89.0 | 64,360 | 88.1 | 65,009 | 88.2 | 60,292 | 89.2 | 53,947 | 87.6 |
| Stainless and heat resisting | 1,187 | 9.3 | 1,251 | 1.7 | 1,248 | 1.7 | 1,137 | 1.7 | 894 | 1.5 |
| Alloy (other than stainless) | 6,556 | 1.7 | 7,432 | 10.2 | 7,482 | 10.1 | 6,154 | 9.1 | 6,726 | 10.9 |
| **Total Steel Mill Product Shipment By Months*** | | | | | | | | | | |
| January | 6,437 | | 6,017 | | 5,980 | | 4,583 | | 5,608 | |
| February | 5,799 | | 5,598 | | 6,150 | | 4,588 | | 5,434 | |
| March | 6,142 | | 6,344 | | 7,240 | | 5,969 | | 6,163 | |
| April | 6,283 | | 6,425 | | 6,472 | | 5,399 | | 5,488 | |
| May | 6,212 | | 6,519 | | 6,948 | | 5,612 | | 5,149 | |
| June | 6,007 | | 6,125 | | 6,686 | | 5,986 | | 5,372 | |
| July | 5,815 | | 5,710 | | 5,820 | | 5,045 | | 4,514 | |
| August | 5,364 | | 6,064 | | 6,033 | | 5,789 | | 4,724 | |
| September | 5,608 | | 5,848 | | 5,454 | | 5,893 | | 4,760 | |
| October | 5,923 | | 6,308 | | 6,087 | | 6,078 | | 4,309 | |
| November | 4,899 | | 5,654 | | 5,317 | | 6,014 | | 4,088 | |
| December | 5,199 | | 5,821 | | 4,867 | | 6,269 | | 4,234 | |
| **Total*** | **70,263** | | **73,043** | | **73,739** | | **67,583** | | **61,567** | |

*Totals include adjustments not shown in monthly figures

# Table 11 *(continued)*

## *Net Shipments of Steel Mill Products—All Grades*

**(Thousands of net tons)**

| | 1981 | | 1980 | | 1979 | | 1978 | | 1977 | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Products** | **Tons** | **%** | **Tons** | **%** | **Tons** | **%** | **Tons** | **%** | **Tons** | **%** |
| Ingots and steel castings | 461 | 0.5 | 445 | 0.6 | 504 | 0.5 | 516 | 0.5 | 423 | 0.5 |
| Blooms, slabs and billets | 2,185 | 2.5 | 2,185 | 2.6 | 2,095 | 2.1 | 1,969 | 2.0 | 1,736 | 1.9 |
| Skelp | 18 | .. | 24 | | 35 | | 31 | 0.1 | 31 | |
| Wire rods | 3,040 | 3.4 | 2,688 | 3.2 | 2,861 | 2.9 | 2,554 | 2.6 | 1,804 | 2.0 |
| Structural shapes (3" & over) | 4,929 | 5.6 | 4,861 | 5.8 | 5,303 | 5.3 | 4,667 | 4.7 | 4,035 | 4.4 |
| Steel piling | 282 | 0.3 | 346 | 0.4 | 293 | 0.3 | 360 | 0.4 | 347 | 0.4 |
| Plates | 7,441 | 8.4 | 8,080 | 9.6 | 9,035 | 9.0 | 8,601 | 8.8 | 7,529 | 8.3 |
| Rails—Standard (over 60 lbs.) | 907 | 1.0 | 1,085 | 1.3 | 1,122 | 1.1 | 946 | 1.0 | 1,109 | 1.2 |
| —All other | 48 | 0.1 | 53 | 0.1 | 48 | 0.1 | 38 | | 37 | 0.1 |
| Joint bars | 10 | | 17 | | 19 | | 14 | | 17 | |
| Tie plates | 213 | 0.3 | 205 | 0.2 | 337 | 0.3 | 255 | 0.2 | 264 | 0.3 |
| Track spikes | 81 | 0.1 | 85 | 0.1 | 101 | 0.1 | 97 | 0.1 | 103 | 0.1 |
| Wheels (rolled and forged) | 110 | 0.1 | 159 | 0.2 | 180 | 0.2 | 165 | 0.2 | 189 | 0.2 |
| Axles | 100 | 0.1 | 193 | 0.2 | 218 | 0.2 | 188 | 0.2 | 144 | 0.2 |
| Bars—Hot rolled | 6,890 | 7.8 | 5,961 | 7.1 | 8,493 | 8.5 | 8,758 | 9.0 | 8,369 | 9.2 |
| —Bar-Size light shapes | 1,473 | 1.7 | 950 | 1.1 | 1,466 | 1.5 | 1,277 | 1.3 | 993 | 1.1 |
| —Reinforcing | 4,612 | 5.2 | 4,684 | 5.6 | 5,303 | 5.3 | 4,704 | 4.8 | 4,179 | 4.6 |
| —Cold finished | 1,631 | 1.8 | 1,585 | 1.9 | 2,245 | 2.2 | 2,084 | 2.1 | 1,794 | 1.9 |
| Tool steel | 67 | 0.1 | 79 | 0.1 | 95 | 0.1 | 92 | 0.1 | 85 | 0.1 |
| Pipe and tubing—Standard | 1,858 | 2.1 | 1,773 | 2.1 | 1,952 | 1.9 | 2,054 | 2.1 | 1,853 | 2.0 |
| —Oil country goods | 4,241 | 4.8 | 3,612 | 4.3 | 2,458 | 2.5 | 2,647 | 2.7 | 2,405 | 2.6 |
| —Line | 2,047 | 2.3 | 1,793 | 2.1 | 1,569 | 1.6 | 1,571 | 1.6 | 1,330 | 1.5 |
| —Mechanical | 1,348 | 1.5 | 1,159 | 1.4 | 1,507 | 1.5 | 1,480 | 1.5 | 1,362 | 1.5 |
| —Pressure | 154 | 0.2 | 149 | 0.2 | 170 | 0.2 | 184 | 0.2 | 218 | 0.2 |
| —Structural | 598 | 0.7 | 569 | 0.7 | 541 | 0.5 | 423 | 0.4 | 290 | 0.3 |
| —Stainless | 39 | | 41 | 0.1 | 46 | | 40 | 0.1 | 32 | 0.1 |
| Wire—Drawn | 1,440 | 1.6 | 1,392 | 1.7 | 1,918 | 1.9 | 1,968 | 2.0 | 1,894 | 2.1 |
| —Nails and staples | 150 | 0.2 | 173 | 0.2 | 257 | 0.2 | 289 | 0.3 | 278 | 0.3 |
| —Barbed and twisted | 81 | 0.1 | 70 | 0.1 | 67 | 0.1 | 58 | 0.1 | 55 | |
| —Woven wire fence | 95 | 0.1 | 92 | 0.1 | 122 | 0.1 | 109 | 0.1 | 113 | 0.1 |
| —Bale ties and baling wire | 49 | 0.1 | 41 | | 85 | 0.1 | 87 | 0.1 | 60 | 0.1 |

# Table 11 *(continued)*

## *Net Shipments of Steel Mill Products—All Grades*

**(Thousands of net tons)**

| Steel Products | 1981 Tons | 1981 % | 1980 Tons | 1980 % | 1979 Tons | 1979 % | 1978 Tons | 1978 % | 1977 Tons | 1977 % |
|---|---|---|---|---|---|---|---|---|---|---|
| Black plate | 421 | 0.5 | 504 | 0.6 | 629 | 0.6 | 623 | 0.6 | 636 | 0.7 |
| Tin plate | 3,490 | 3.9 | 4,166 | 5.0 | 4,604 | 4.6 | 4,489 | 4.6 | 4,700 | 5.1 |
| Tin free Steel | 948 | 1.1 | 978 | 1.1 | 1,003 | 1.0 | 918 | 0.9 | 974 | 1.1 |
| Tin mill products—All other | 68 | 0.1 | 61 | 0.1 | 75 | 0.1 | 70 | 0.1 | 72 | 0.1 |
| Sheets—Hot rolled | 13,451 | 15.2 | 12,116 | 14.5 | 15,995 | 16.0 | 15,447 | 15.8 | 14,558 | 16.0 |
| —Cold rolled | 14,396 | 16.3 | 13,313 | 15.9 | 17,284 | 17.2 | 17,821 | 18.2 | 17,684 | 19.4 |
| Sheets and strip—Galvanized—Hot dipped | 5,375 | 6.1 | 4,787 | 5.7 | 5,810 | 5.8 | 5,889 | 6.0 | 5,293 | 5.8 |
| —Electrolytic | 548 | 0.6 | 457 | 0.5 | 531 | 0.5 | 541 | 0.6 | 364 | 0.4 |
| —All other metallic coated | 836 | 0.9 | 722 | 0.9 | 975 | 1.0 | 997 | 1.0 | 923 | 1.0 |
| —Electrical | 599 | 0.7 | 601 | 0.7 | 697 | 0.7 | 639 | 0.6 | 597 | 0.6 |
| Strip—Hot rolled | 660 | 0.7 | 669 | 0.8 | 984 | 1.0 | 1,027 | 1.0 | 1,082 | 1.2 |
| —Cold rolled | 1,060 | 1.2 | 930 | 1.1 | 1,230 | 1.2 | 1,248 | 1.3 | 1,186 | 1.3 |
| **Total Steel Mill Products** | **88,450** | **100.0** | **83,853** | **100.0** | **100,262** | **100.0** | **97,935** | **100.0** | **91,147** | **100.0** |
| Carbon | 76,554 | 86.6 | 73,358 | 87.5 | 87,879 | 87.6 | 86,187 | 88.0 | 81,268 | 89.2 |
| Stainless and heat resisting | 1,163 | 1.3 | 1,127 | 1.3 | 1,361 | 1.4 | 1,191 | 1.2 | 1,118 | 1.2 |
| Alloy (other than stainless) | 10,732 | 12.1 | 9,368 | 11.2 | 11,022 | 11.0 | 10,557 | 10.8 | 8,761 | 9.6 |
| **Total Steel Mill Product Shipment By Months*** | | | | | | | | | | |
| January | 7,616 | | 7,952 | | 8,206 | | 7,323 | | 6,459 | |
| February | 7,375 | | 7,690 | | 7,996 | | 7,539 | | 6,690 | |
| March | 8,422 | | 8,711 | | 10,293 | | 8,718 | | 8,750 | |
| April | 8,108 | | 7,296 | | 7,438 | | 8,055 | | 7,981 | |
| May | 7,932 | | 6,440 | | 10,187 | | 8,610 | | 8,369 | |
| June | 8,148 | | 5,848 | | 8,977 | | 8,787 | | 8,811 | |
| July | 7,115 | | 5,353 | | 8,319 | | 7,608 | | 6,986 | |
| August | 7,020 | | 5,745 | | 8,475 | | 8,293 | | 7,737 | |
| September | 7,039 | | 6,682 | | 7,929 | | 8,252 | | 7,662 | |
| October | 6,723 | | 7,458 | | 8,355 | | 8,599 | | 7,400 | |
| November | 5,783 | | 7,038 | | 7,361 | | 7,813 | | 7,188 | |
| December | 5,666 | | 7,591 | | 6,743 | | 8,196 | | 7,020 | |
| **Total*** | **88,450** | | **83,853** | | **100,262** | | **97,935** | | **91,147** | |

*Totals include adjustments not shown in monthly figures

# Table 12

## *Net Shipments of Steel Mill Products by Market Classifications*
## *All Grades*

(Thousands of net tons)

| Market Classifications | 1986 | | 1985 | | 1984 | | 1983 | | 1982 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Steel for converting and processing | 5,635 | 8.0 | 5,484 | 7.5 | 5,136 | 7.0 | 4,403 | 6.5 | 3,222 | 5.2 |
| Independent forgers (not elsewhere classified) | 538 | 0.8 | 708 | 1.0 | 775 | 1.1 | 573 | 0.8 | 579 | 0.9 |
| Industrial fasteners | 427 | 0.6 | 386 | 0.5 | 455 | 0.6 | 440 | 0.7 | 404 | 0.7 |
| Steel service centers & distributors | 17,478 | 24.9 | 18,439 | 25.2 | 18,364 | 24.9 | 16,710 | 24.7 | 13,067 | 21.2 |
| Construction, including maintenance | 7,336 | 10.4 | 7,900 | 10.8 | 7,522 | 10.2 | 7,271 | 10.8 | 6,283 | 10.2 |
| Contractors' products | 3,278 | 4.7 | 3,330 | 4.6 | 2,631 | 3.6 | 2,703 | 4.0 | 2,287 | 3.7 |
| **Total** | **10,614** | **15.1** | **11,230** | **15.4** | **10,153** | **13.8** | **9,974** | **14.8** | **8,570** | **13.9** |
| Automotive | | | | | | | | | | |
| Vehicles, parts, etc. | 11,627 | 16.5 | 12,689 | 17.3 | 12,571 | 17.1 | 12,052 | 17.8 | 9,111 | 14.8 |
| Independent forgers | 262 | 0.4 | 261 | 0.4 | 311 | 0.4 | 268 | 0.4 | 177 | 0.3 |
| **Total** | **11,889** | **16.9** | **12,950** | **17.7** | **12,882** | **17.5** | **12,320** | **18.2** | **9,288** | **15.1** |
| Rail transportation | | | | | | | | | | |
| Freight cars, pass. cars & locomotives | 267 | 0.4 | 280 | 0.4 | 347 | 0.4 | 217 | 0.3 | 382 | 0.6 |
| Rails and all other | 531 | 0.7 | 781 | 1.0 | 1,091 | 1.5 | 720 | 1.1 | 638 | 1.1 |
| **Total** | **798** | **1.1** | **1,061** | **1.4** | **1,438** | **1.9** | **937** | **1.4** | **1,020** | **1.7** |
| Shipbuilding and marine equipment | 211 | 0.3 | 337 | 0.5 | 471 | 0.6 | 471 | 0.7 | 399 | 0.6 |
| Aircraft and aerospace | 39 | | 39 | | 37 | 0.1 | 21 | | 30 | |
| Oil and gas industry | 1,023 | 1.5 | 2,044 | 2.8 | 2,003 | 2.7 | 1,296 | 1.9 | 2,745 | 4.5 |
| Mining, quarrying and lumbering | 275 | 0.4 | 298 | 0.4 | 298 | 0.4 | 262 | 0.4 | 254 | 0.4 |
| Agricultural | | | | | | | | | | |
| Agricultural machinery | 373 | 0.6 | 442 | 0.7 | 480 | 0.6 | 417 | 0.6 | 425 | 0.7 |
| All other | 228 | 0.3 | 187 | 0.2 | 193 | 0.3 | 282 | 0.4 | 519 | 0.8 |
| **Total** | **601** | **0.9** | **629** | **0.9** | **673** | **0.9** | **699** | **1.0** | **944** | **1.5** |
| Machinery, industrial equipment & tools | 2,076 | 3.0 | 2,271 | 3.1 | 2,886 | 3.9 | 2,484 | 3.7 | 2,584 | 4.2 |
| Electrical equipment | 2,113 | 3.0 | 1,869 | 2.6 | 2,365 | 3.2 | 2,337 | 3.5 | 2,003 | 3.3 |
| Appliances, utensils and cutlery | 1,648 | 2.3 | 1,466 | 2.0 | 1,635 | 2.2 | 1,618 | 2.4 | 1,337 | 2.2 |
| Other domestic and commercial equipment | 1,173 | 1.7 | 1,215 | 1.7 | 1,339 | 1.8 | 1,363 | 2.0 | 1,247 | 2.0 |
| Containers, packaging and shipping materials | | | | | | | | | | |
| Cans and closures | 3,020 | 4.3 | 3,044 | 4.2 | 3,268 | 4.4 | 3,443 | 5.1 | 3,480 | 5.7 |
| Barrels, drums and shipping pails | 519 | 0.7 | 465 | 0.6 | 507 | 0.7 | 535 | 0.8 | 536 | 0.9 |
| All other | 574 | 0.9 | 580 | 0.8 | 577 | 0.8 | 554 | 0.8 | 454 | 0.7 |
| **Total** | **4,113** | **5.9** | **4,089** | **5.6** | **4,352** | **5.9** | **4,532** | **6.7** | **4,470** | **7.3** |
| Ordnance and other military | 228 | 0.3 | 267 | 0.4 | 242 | 0.3 | 244 | 0.4 | 203 | 0.3 |
| Export (reporting companies only) | 495 | 0.7 | 494 | 0.7 | 428 | 0.6 | 544 | 0.8 | 832 | 1.4 |
| Nonclassified shipments | 8,885 | 12.6 | 7,767 | 10.6 | 7,807 | 10.6 | 6,355 | 9.4 | 8,369 | 13.6 |
| **Total Shipments** | **70,263** | **100.0** | **73,043** | **100.0** | **73,739** | **100.0** | **67,583** | **100.0** | **61,567** | **100.0** |

# Table 12 *(continued)*

## *Net Shipments of Steel Mill Products by Market Classifications*
## *All Grades*

**(Thousands of net tons)**

| Market Classifications | 1981 | | 1980 | | 1979 | | 1978 | | 1977 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Steel for converting and processing | 5,058 | 5.7 | 4,117 | 4.9 | 5,058 | 5.0 | 4,612 | 4.7 | 3,679 | 4.0 |
| Independent forgers (not elsewhere classified) | 1,035 | 1.2 | 933 | 1.1 | 1,254 | 1.3 | 1,192 | 1.2 | 998 | 1.1 |
| Industrial fasteners | 648 | 0.7 | 590 | 0.7 | 934 | 0.9 | 870 | 0.9 | 848 | 0.9 |
| Steel service centers & distributors | 17,637 | 19.9 | 16,172 | 19.3 | 18,246 | 18.2 | 17,333 | 17.7 | 15,346 | 16.8 |
| Construction, including maintenance | 8,446 | 9.5 | 8,742 | 10.4 | 9,978 | 10.0 | 9,612 | 9.8 | 7,553 | 8.3 |
| Contractors' products | 3,230 | 3.7 | 3,148 | 3.8 | 3,745 | 3.7 | 3,480 | 3.6 | 4,500 | 4.9 |
| **Subtotal construction and contractors' products** | **11,676** | **13.2** | **11,890** | **14.2** | **13,723** | **13.7** | **13,092** | **13.4** | **12,053** | **13.2** |
| Automotive | | | | | | | | | | |
| Vehicles, parts, etc. | 12,808 | 14.5 | 11,855 | 14.2 | 18,099 | 18.0 | 20,651 | 21.1 | 20,882 | 22.9 |
| Independent forgers | 346 | 0.4 | 269 | 0.3 | 522 | 0.5 | 602 | 0.6 | 608 | 0.7 |
| **Total** | **13,154** | **14.9** | **12,124** | **14.5** | **18,621** | **18.5** | **21,253** | **21.7** | **21,490** | **23.6** |
| Rail transportation | | | | | | | | | | |
| Freight cars, pass. cars & locomotives | 976 | 1.1 | 1,884 | 2.3 | 2,445 | 2.4 | 2,188 | 2.2 | 1,709 | 1.9 |
| Rails and all other | 1,186 | 1.3 | 1,271 | 1.5 | 1,666 | 1.7 | 1,361 | 1.4 | 1,529 | 1.7 |
| **Total** | **2,162** | **2.5** | **3,155** | **3.8** | **4,111** | **4.1** | **3,549** | **3.6** | **3,238** | **3.6** |
| Shipbuilding and marine equipment | 1,101 | 1.2 | 1,201 | 1.4 | 924 | 0.9 | 845 | 0.9 | 869 | 1.0 |
| Aircraft and aerospace | 37 | | 53 | 0.1 | 60 | 0.1 | 60 | 0.1 | 63 | 0.1 |
| Oil and gas industry | 6,238 | 7.1 | 5,371 | 6.4 | 3,739 | 3.7 | 4,140 | 4.3 | 3,650 | 4.0 |
| Mining, quarrying and lumbering | 493 | 0.6 | 454 | 0.5 | 569 | 0.6 | 508 | 0.5 | 486 | 0.5 |
| Agricultural | | | | | | | | | | |
| Agricultural machinery | 820 | 0.9 | 852 | 1.0 | 1,306 | 1.3 | 1,080 | 1.1 | 1,017 | 1.1 |
| All other | 409 | 0.5 | 388 | 0.5 | 665 | 0.7 | 725 | 0.7 | 631 | 0.7 |
| **Total** | **1,229** | **1.4** | **1,240** | **1.5** | **1,971** | **2.0** | **1,805** | **1.8** | **1,648** | **1.8** |
| Machinery, industrial equipment & tools | 4,624 | 5.2 | 4,543 | 5.4 | 5,996 | 6.0 | 5,992 | 6.1 | 5,566 | 6.1 |
| Electrical equipment | 2,600 | 2.9 | 2,441 | 2.9 | 2,819 | 2.8 | 2,811 | 2.9 | 2,639 | 2.9 |
| Appliances, utensils and cutlery | 1,775 | 2.0 | 1,725 | 2.1 | 2,140 | 2.1 | 2,094 | 2.1 | 2,129 | 2.3 |
| Other domestic and commercial equipment | 1,622 | 1.8 | 1,701 | 2.0 | 2,073 | 2.1 | 1,889 | 1.9 | 1,846 | 2.0 |
| Containers, packaging and shipping materials | | | | | | | | | | |
| Cans and closures | 3,786 | 4.3 | 4,163 | 5.0 | 4,994 | 4.9 | 4,950 | 4.9 | 5,173 | 5.7 |
| Barrels, drums and shipping pails | 744 | 0.8 | 725 | 0.9 | 939 | 1.0 | 809 | 0.9 | 768 | 0.8 |
| All other | 762 | 0.9 | 663 | 0.7 | 839 | 0.9 | 836 | 0.9 | 773 | 0.9 |
| **Total** | **5,292** | **6.0** | **5,551** | **6.6** | **6,772** | **6.8** | **6,595** | **6.7** | **6,714** | **7.4** |
| Ordnance and other military | 166 | 0.2 | 177 | 0.2 | 204 | 0.2 | 207 | 0.2 | 193 | 0.2 |
| Export (reporting companies only) | 1,845 | 2.1 | 2,595 | 3.1 | 2,007 | 2.0 | 1,224 | 1.3 | 1,076 | 1.2 |
| Nonclassified shipments | 10,058 | 11.4 | 7,820 | 9.3 | 9,041 | 9.0 | 7,864 | 8.0 | 6,616 | 7.3 |
| **Total Shipments** | **88,450** | **100.0** | **83,853** | **100.0** | **100,262** | **100.0** | **97,935** | **100.0** | **91,147** | **100.0** |

# Table 13

*Shipments of Steel Mill Products by Market Classification—1986*
*All Grades*

(Net Tons)

| Products | Steel for Converting and Processing | | | | | Steel Service Centers and Distributors | Construction Including Maintenance | Contractors' Products |
|---|---|---|---|---|---|---|---|---|
| | Total Shipments | Less Shipments to Reporting Companies | Net Shipments | Independent Forgers (Not elsewhere classified) | Industrial Fasteners | | | |
| Ingots, blooms, billets, slabs | 676,187 | 351,824 | 324,363 | 209,789 | 20,515 | 127,292 | 16,415 | 55,378 |
| Skelp | 4,903 | | 4,903 | | | | | |
| Wire rods | 1,534,275 | 145,548 | 1,388,727 | 40 | 130,705 | 15,665 | 756,273 | 34,399 |
| Structural shapes (3" & over) | 195 | | 195 | | | 843,607 | 1,983,516 | 4,099 |
| Steel piling | | | | | | 55,254 | 237,316 | |
| Plates | 116,475 | 11,004 | 105,471 | 99 | 671 | 1,241,900 | 631,887 | 30,345 |
| Rails | | | | | | 10,769 | 5,257 | |
| Rail Accessories | | | | | | 11,352 | 413 | |
| Wheels (rolled and forged) | | | | | | | 1 | |
| Axles | | | | | | | | |
| Bars—Hot rolled (including light shapes) | 882,211 | 565,762 | 316,449 | 326,690 | 131,479 | 975,294 | 363,106 | 523,002 |
| —Reinforcing | 305,927 | | 305,927 | 186 | 2,752 | 211,300 | 1,707,244 | 69,338 |
| —Cold finished | 12,638 | 530 | 12,108 | 1,065 | 4,540 | 317,911 | 780 | 8,889 |
| Tool steel | 1,034 | 1,034 | | | | | | |
| Pipe and tubing—Standard | 18,883 | 13,924 | 4,959 | | | 489,633 | 29,955 | 28,652 |
| —Oil country goods | 4,175 | 2,058 | 2,117 | | | 54,010 | 9 | |
| —Line | 111 | | 111 | | | 173,689 | 5,891 | 238 |
| —Mechanical | 23,851 | 19,610 | 4,241 | | 69 | 146,266 | 9,858 | 4,713 |
| —Pressure | 1,022 | 418 | 604 | | | 20,524 | 1,816 | 109 |
| —Structural | 159 | | 159 | | | 85,996 | 41,687 | 174 |
| —Stainless | 2,249 | 1,123 | 1,126 | | | 10,996 | 2,079 | 68 |
| Wire—Drawn | 104,173 | 279 | 103,894 | | 31,255 | 114,145 | 108,234 | 22,578 |
| —Nails and staples | 22 | | 22 | | | 65,188 | 26,999 | 10 |
| —Other merchant wire products | | | | | | 16,061 | 30 | |
| Black plate | 12,502 | 6 | 12,496 | | | 52,747 | 658 | 22,471 |
| Tin plate | 32,883 | | 32,883 | | | 234,182 | 44 | 571 |
| Tin free steel | 2,664 | | 2,664 | | | 38,143 | (4) | |
| Tin mill products-All other | | | | | | 21,237 | | 465 |
| Sheets—Hot rolled | 3,063,346 | 1,157,063 | 1,906,283 | | 8,175 | 5,602,612 | 437,303 | 383,533 |
| —Cold rolled | 915,176 | 49,540 | 865,636 | | 3,649 | 3,813,767 | 46,651 | 720,484 |
| Sheets and strip—Galvanized | 109,590 | 12,188 | 97,402 | | 56,562 | 2,340,298 | 604,203 | 1,242,453 |
| —All other metallic coated | 8,665 | | 8,665 | | | 234,096 | 298,907 | 84,629 |
| —Electrical | 10,019 | 9,776 | 243 | | | 27,462 | | 716 |
| Strip—Hot rolled | 223,561 | 127,355 | 96,206 | 43 | 27,013 | 27,483 | 17,348 | 4,786 |
| —Cold rolled | 42,503 | 5,043 | 37,460 | | 9,648 | 98,967 | 2,316 | 36,107 |
| **Total—All Grades** | **8,109,399** | **2,474,085** | **5,635,314** | **537,912** | **427,033** | **17,477,846** | **7,336,192** | **3,278,207** |
| % | | | 80 | 0.8 | 0.6 | 24.9 | 10.4 | 4.7 |

# Table 13 *(continued)*

*Shipments of Steel Mill Products by Market Classification—1986*
*All Grades*

**(Net tons)**

| Products | Automotive | Rail Transportation | Shipbuilding and Marine Equipment | Aircraft and Aerospace | Oil and Gas Industry | Mining, Quarrying and Lumbering | Agricultural | Machinery, Industrial Equipment and Tools |
|---|---|---|---|---|---|---|---|---|
| Ingots, blooms, billets, slabs | 82,753 | 1,801 | 1,117 | 19,877 | 10,728 | 5 | 1,212 | 67,210 |
| Skelp | | | | | | | | |
| Wire rods | 137,857 | 5,087 | 5,000 | 126 | 8,054 | 119 | 84,253 | 264,064 |
| Structural shapes (3" & over) | 7,754 | 20,685 | 19,518 | 259 | 2,270 | 187 | 6,892 | 20,003 |
| Steel piling | | 1,757 | 29 | | 31 | | | |
| Plates | 56,372 | 110,275 | 162,824 | 3,072 | 34,292 | 10,869 | 30,567 | 430,618 |
| Rails | | 422,727 | | | | 23 | | |
| Rail Accessories | | 37,834 | | | | 1 | | |
| Wheels (rolled and forged) | | 49,774 | | | | | | |
| Axles | | 27,679 | | | | 97 | | |
| Bars—Hot rolled (including light shapes) | 1,252,084 | 69,213 | 4,743 | 8,395 | 71,712 | 174,513 | 89,205 | 350,046 |
| —Reinforcing | | 6,924 | | 3 | 6,763 | 51,016 | 923 | 7,809 |
| —Cold finished | 113,869 | 851 | 1,157 | 1,469 | 3,881 | 2,465 | 12,085 | 127,365 |
| Tool steel | | | | | | | | |
| Pipe and tubing—Standard | 1,724 | 87 | | | 52,640 | 56 | 278 | 1,068 |
| —Oil country goods | | | | | 392,032 | | | 106 |
| —Line | | | | | 406,622 | | | 479 |
| —Mechanical | 134,427 | 541 | 20 | 1,330 | 16,559 | 1,041 | 11,235 | 201,680 |
| —Pressure | 36 | | 174 | | 328 | | | 15,964 |
| —Structural | 28 | 21 | | | 7,700 | | 2,503 | 5,650 |
| —Stainless | 26 | | 4 | 335 | 361 | | | 4,668 |
| Wire—Drawn | 24,654 | 210 | 1,281 | 16 | 4,899 | 8,318 | 2,854 | 42,790 |
| —Nails and staples | | | | | | | 3 | 47 |
| —Other merchant wire products | | 7 | | | | | 154 | 7 |
| Black plate | 3,849 | | | | | | | 1,942 |
| Tin plate | 48,641 | 9 | | | | | | 4,837 |
| Tin free steel | 615 | | | | | | | 41 |
| Tin mill products-All other | 42,045 | | | | | | | 711 |
| Sheets—Hot rolled | 2,236,679 | 35,723 | 4,675 | 184 | 1,820 | 21,487 | 101,295 | 153,198 |
| —Cold rolled | 3,896,922 | 1,600 | 10,295 | 388 | 274 | 3,029 | 15,556 | 171,120 |
| Sheets and strip—Galvanized | 2,951,776 | 4,018 | 125 | 47 | 280 | 1,599 | 204,226 | 22,938 |
| —All other metallic coated | 430,223 | | | | 758 | | 3,440 | 7,388 |
| —Electrical | 2,055 | 176 | | | | | 5 | 17,146 |
| Strip—Hot rolled | 273,673 | 873 | | 2,243 | 1,408 | 490 | 33,125 | 96,109 |
| —Cold rolled | 190,943 | 224 | 229 | 1,734 | 34 | 31 | 1,152 | 61,398 |
| **Total—All Grades** | **11,889,005** | **798,096** | **211,191** | **39,478** | **1,023,446** | **275,350** | **600,963** | **2,076,402** |
| % | 16.9 | 0.1 | 0.3 | | 1.5 | 0.4 | 0.9 | 3.0 |

# Table 13 *(continued)*

## *Shipments of Steel Mill Products by Market Classification—1985*

## *All Grades*

**(Net tons)**

| Products | Electrical Equipment | Appliances, Utensils, and Cutlery | Other Domestic and Commercial Equipment | Containers, Packaging and Shipping Materials | Ordnance and Other Military | Export (Reporting Companies Only) | Non-classified Shipments | Total | % |
|---|---|---|---|---|---|---|---|---|---|
| Ingots, blooms, billets, slabs | 104 | 2,082 | | 8,799 | 94,336 | 28,747 | 412,726 | 1,485,249 | 2.1 |
| Skelp | | | 94 | | | | | 4,997 | |
| Wire rods | 26,259 | 5,190 | 136,951 | 652 | | 987 | 463,419 | 3,463,827 | 4.9 |
| Structural shapes (3" & over) | 961 | | 871 | 49 | | 10,620 | 1,311,427 | 4,232,913 | 6.0 |
| Steel piling | | | | | | 332 | | 294,719 | 0.4 |
| Plates | 58,378 | 7,370 | 10,122 | 4,924 | 56,043 | 30,786 | 547,921 | 3,564,806 | 5.1 |
| Rails | | | | | | 1,563 | 20,669 | 461,008 | 0.6 |
| Rail Accessories | | | | | | 1,162 | 50,309 | 101,071 | 0.1 |
| Wheels (rolled and forged) | | | | | | 352 | | 50,127 | 0.1 |
| Axles | | | | | | 215 | | 27,991 | |
| Bars—Hot rolled (including light shapes) | 25,947 | 30,713 | 36,965 | 758 | 18,698 | 39,094 | 1,750,998 | 6,559,108 | 9.3 |
| —Reinforcing | | | | | | 6,719 | 1,921,918 | 4,298,822 | 6.1 |
| —Cold finished | 5,750 | 12,262 | 8,800 | 63 | 8,134 | 3,795 | 610,198 | 1,257,437 | 1.8 |
| Tool steel | | | | | | 1,290 | 54,485 | 55,775 | 0.1 |
| Pipe and tubing—Standard | 60,253 | 96 | 4,717 | 450 | 863 | 3,899 | 30,386 | 709,716 | 1.0 |
| —Oil country goods | 47 | | | | | 5,523 | 28,877 | 482,721 | 0.7 |
| —Line | 143 | | 151 | | | 1,521 | 15,217 | 604,062 | 0.9 |
| —Mechanical | 4,324 | 8,432 | 15,259 | | 4,445 | 17,398 | 166,601 | 748,439 | 1.1 |
| —Pressure | 156 | | | 2,281 | 3,564 | 5,390 | 20,766 | 71,712 | 0.1 |
| —Structural | 31,582 | | 114 | | | | 1,954 | 177,568 | 0.3 |
| —Stainless | 287 | | 18 | 5 | | 505 | 21,762 | 42,240 | 0.1 |
| Wire—Drawn | 6,445 | 15,083 | 74,184 | 9,818 | 1,797 | 1,469 | 228,335 | 802,259 | 1.1 |
| —Nails and staples | | | | | | 25 | 112,602 | 204,896 | 0.3 |
| —Other merchant wire products | | | | | | 1 | 56,912 | 73,172 | 0.1 |
| Black plate | 4,673 | 2,935 | 23,751 | 78,977 | | 11,775 | | 216,274 | 0.3 |
| Tin plate | 3,664 | 10,053 | 11,193 | 2,135,290 | 416 | 90,542 | 8,867 | 2,581,192 | 3.7 |
| Tin free steel | 8,147 | 70 | 5,101 | 853,134 | | 26,910 | 510 | 935,331 | 1.3 |
| Tin mill products—all other | 153 | 1,878 | 575 | 2,064 | | 18 | | 69,146 | 0.1 |
| Sheets—Hot rolled | 341,988 | 77,844 | 113,418 | 229,333 | 2,247 | 77,110 | 432,032 | 12,166,939 | 17.3 |
| —Cold rolled | 1,075,100 | 1,189,527 | 590,830 | 608,893 | 15,569 | 33,988 | 186,878 | 13,250,156 | 18.9 |
| Sheets and strip—Galvanized | 100,309 | 203,082 | 90,815 | 24,425 | 529 | 23,006 | 154,245 | 8,122,338 | 11.6 |
| —All other metallic coated | 712 | 24,156 | 12,001 | 3,104 | 256 | 34,862 | 33,387 | 1,176,584 | 1.7 |
| —Electrical | 330,374 | 18,296 | 2,142 | | | 16,604 | 359 | 415,578 | 0.6 |
| Strip—Hot rolled | 4,980 | 3,561 | 8,071 | 3,684 | 689 | 5,596 | 27,663 | 635,044 | 0.9 |
| —Cold rolled | 22,317 | 35,707 | 27,303 | 146,154 | 20,707 | 13,473 | 213,658 | 919,562 | 1.3 |
| **Total—All Grades** | **2,113,053** | **1,648,337** | **1,173,446** | **4,112,857** | **228,293** | **495,277** | **8,885,081** | **70,262,779** | **100.0** |
| % | 3.0 | 2.3 | 1.7 | 5.9 | 0.3 | 0.7 | 12.6 | 100.0 | |

# EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1981-1985. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

# Table 14

*Exports of Iron and Steel Products*

(Net tons)

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Steel Mill Products | | | | | |
| Ingots, blooms, billets, slabs, etc | 58,885 | 89,708 | 73,536 | 102,754 | 362,293 |
| Wire rods | 5,876 | 4,740 | 8,646 | 6,137 | 24,961 |
| Structural shapes (3" & over) | 31,697 | 41,633 | 29,048 | 47,019 | 56,398 |
| Sheet piling | 5,729 | 628 | 3,355 | 2,097 | 5,620 |
| Plates | 69,565 | 82,988 | 88,184 | 101,982 | 121,930 |
| Rails—Standard | 1,660 | 1,888 | 3,126 | 4,333 | 12,637 |
| —Other | 2,402 | 4,682 | 8,015 | 4,884 | 16,286 |
| Rail joints and tie plates | 5,385 | 4,367 | 4,084 | 9,297 | 7,563 |
| Wheels and axles | 3,685 | 2,493 | 3,853 | 1,557 | 2,706 |
| Bars—Hot rolled | 45,253 | 62,719 | 82,972 | 89,677 | 79,385 |
| Bars shapes under 3" | 6,995 | 7,139 | 11,231 | 21,796 | 9,576 |
| Concrete reinforcing bars | 14,197 | 7,409 | 9,889 | 34,524 | 114,739 |
| Cold finished bars | 12,636 | 19,735 | 27,177 | 20,487 | 16,502 |
| Tool steel | 2,144 | 2,094 | 2,326 | 3,568 | 2,406 |
| Line Pipe | 14,375 | 12,737 | 17,921 | 24,551 | 48,003 |
| Standard pipe | 35,619 | 22,614 | 23,229 | 50,068 | 73,100 |
| Oil country goods | 10,531 | 62,211 | 53,067 | 60,835 | 153,459 |
| Tubing—Pressure | 25,461 | 6,158 | 5,311 | 10,582 | 20,576 |
| —Mechanical | 4,492 | 38,599 | 45,177 | 41,485 | 34,273 |
| —Structural | 3,040 | 4,748 | 6,628 | 5,646 | 3,825 |
| Stainless pipe & tubing | 25,916 | 6,009 | 7,648 | (incl. in applicable products) | |
| Other pipe and tubing | 1,616 | 46,243 | 48,445 | 64,785 | 97,390 |
| Wire--Drawn | 26,081 | 18,758 | 19,441 | 18,739 | 22,863 |
| —Barbed, Iron or Steel | 5,862 | 834 | 1,366 | 1,601 | 3,399 |
| —Nails and staples | 2,636 | 5,445 | 7,161 | 6,919 | 7,091 |
| Black plate | 70,488 | 32,754 | 38,782 | 60,925 | 71,890 |
| Tin plate | 206,286 | 130,027 | 121,472 | 170,060 | 226,471 |
| Tin free | 2,699 | 1,123 | 1,766 | (incl. in galv. & ctd sheets & strip) | |
| Sheets—Hot rolled | 75,906 | 56,696 | 51,581 | 42,543 | 62,188 |
| —Cold rolled | 28,094 | 32,758 | 38,734 | 39,990 | 38,352 |
| Sheets & strip—Galv | 27,365 | 29,261 | 31,741 | 96,712 | 81,052 |
| —Coated | 52,457 | 42,761 | 55,287 | | |
| —Electrical | 10,122 | 14,132 | 12,922 | 10,674 | 13,229 |
| Strip—Hot rolled | 13,683 | 12,482 | 11,563 | 16,430 | 27,491 |
| —Cold rolled | 20,319 | 23,401 | 25,729 | 25,920 | 24,613 |
| **Total Steel Mill Products** | **929,156** | **931,976** | **980,414** | **1,198,577** | **1,842,267** |
| Carbon | 687,029 | 648,063 | 704,290 | 842,044 | 1,250,960 |
| Alloy | 193,723 | 228,288 | 235,235 | 307,097 | 538,717 |
| Stainless | 48,404 | 55,625 | 40,888 | 49,436 | 52,590 |

# Table 14 *(continued)*

## *Exports of Iron and Steel Products*

(Net tons)

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Other Steel Products: | | | | | |
| Plates—Fabricated | 3,088 | 5,633 | 3,573 | 5,621 | 6,849 |
| Structural shapes—Fabricated | 34,098 | 46,770 | 86,853 | 65,801 | 119,300 |
| Sashes and frames | 4,242 | 6,815 | 8,986 | 9,198 | 10,136 |
| Rails-used | 77,725 | 109,560 | 58,212 | 34,026 | 52,796 |
| Railway track material | 2,812 | 2,843 | 2,550 | 3,214 | 6,606 |
| Bolts, nuts | 44,186 | 58,944 | 86,897 | 72,906 | 70,594 |
| Architectural & ornamental work, nec | 2,552 | 1,765 | 2,207 | 3,642 | 5,574 |
| Wire cable, rope, strand & cordage | 7,465 | 7,149 | 6,478 | 10,329 | 13,733 |
| Fabricated wire products | 11,347 | 10,119 | 7,100 | 10,093 | 11,301 |
| Wire springs | 11,069 | 16,135 | 17,246 | 14,564 | 13,675 |
| Welded wire mesh | 2,627 | 2,415 | 3,079 | 5,102 | 7,890 |
| Sheets—Fabricated | 8,046 | 8,044 | 7,798 | 16,370 | 16,361 |
| Cast steel rolls | 1,243 | 1,471 | 1,438 | 977 | 3,205 |
| Forgings | 46,649 | 46,269 | 41,739 | 33,048 | 46,139 |
| Chains and parts | 6,846 | 8,129 | 7,760 | 6,380 | 11,918 |
| Pipe & tube fittings | 21,528 | 28,956 | 36,182 | 47,796 | 57,612 |
| **Total Other Steel Products** | **285,522** | **361,016** | **378,098** | **339,067** | **453,689** |
| **Total Steel Products** | **1,214,678** | **1,292,991** | **1,358,512** | **1,537,644** | **2,295,956** |
| Iron Products and Ferroalloys: | | | | | |
| Cast iron pressure pipe | 16,603 | 8,600 | 12,611 | 18,447 | 50,967 |
| Cast iron soil pipe | 39,176 | 22,099 | 21,775 | 40,819 | 37,962 |
| Cast iron fittings not malleable | 5,853 | 6,808 | 10,857 | 18,042 | 15,283 |
| Cast iron fittings malleable | 3,168 | 3,500 | 4,273 | 4,562 | 7,589 |
| Iron castings | 40,473 | 94,419 | 122,374 | 58,345 | 69,545 |
| Pig iron | 47,051 | 31,614 | 56,674 | 6,364 | 54,333 |
| Sponge iron, iron or steel powders | 11,529 | 10,773 | 14,791 | 14,243 | 13,939 |
| Ferroalloys | 72,722 | 98,417 | 124,724 | 66,272 | 42,411 |
| **Total Iron Products & Ferroalloys** | **236,576** | **276,231** | **368,081** | **227,094** | **292,029** |
| **Grand Total** | **1,451,254** | **1,569,222** | **1,726,592** | **1,764,738** | **2,587,985** |
| Iron and steel scrap | 11,703,677 | 9,948,395 | 9,498,276 | 7,519,924 | 6,803,764 |

# Table 15

*Exports of Iron and Steel Products*

(Net tons)

| Products | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 | 1978 | 1977 |
|---|---|---|---|---|---|---|---|---|---|---|
| Steel Mill Products: | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 58,885 | 89,708 | 73,536 | 102,754 | 362,293 | 540,598 | 912,309 | 357,965 | 231,098 | 248,422 |
| Wire rods | 5,876 | 4,740 | 8,646 | 6,137 | 24,961 | 101,774 | 212,347 | 26,903 | 38,863 | 83,934 |
| Structural shapes and pilings | 37,426 | 42,261 | 32,403 | 49,116 | 62,018 | 138,988 | 153,754 | 145,884 | 127,275 | 98,202 |
| Plates | 69,565 | 82,988 | 88,184 | 101,982 | 121,930 | 199,534 | 207,840 | 207,860 | 172,068 | 60,660 |
| Rails and accessories | 13,132 | 13,430 | 19,078 | 20,071 | 39,192 | 85,712 | 134,529 | 40,646 | 76,590 | 89,998 |
| Bars and tool steel | 81,225 | 99,096 | 133,595 | 170,052 | 222,608 | 337,463 | 434,068 | 260,244 | 282,309 | 229,991 |
| Pipe and tubing | 121,050 | 199,319 | 207,426 | 257,952 | 430,626 | 472,436 | 470,150 | 723,415 | 561,998 | 407,209 |
| Wire and wire products | 34,579 | 25,037 | 27,968 | 27,259 | 33,353 | 49,302 | 54,239 | 45,142 | 62,411 | 64,320 |
| Tin mill products | 279,473 | 163,904 | 162,020 | 249,556 | 312,017 | 470,810 | 886,482 | 565,953 | 453,463 | 374,500 |
| Sheets and strip | 227,946 | 211,491 | 227,557 | 213,698 | 233,269 | 507,176 | 634,965 | 438,923 | 415,613 | 345,865 |
| **Total Steel Mill Products** | **929,156** | **931,976** | **980,414** | **1,198,577** | **1,842,267** | **2,903,793** | **4,100,683** | **2,817,935** | **2,421,688** | **2,003,101** |
| Other Steel Products | 285,522 | 361,016 | 378,098 | 339,067 | 453,689 | 568,486 | 561,545 | 503,699 | 512,619 | 575,581 |
| **Total Steel Products** | **1,214,678** | **1,292,991** | **1,358,512** | **1,537,644** | **2,295,956** | **3,472,279** | **4,662,228** | **3,321,634** | **2,934,307** | **2,578,682** |
| Iron Products and Ferroalloys | 236,576 | 276,231 | 368,081 | 227,094 | 292,029 | 302,446 | 445,110 | 440,684 | 564,977 | 639,318 |
| **Grand Total** | **1,451,254** | **1,569,222** | **1,726,592** | **1,764,738** | **2,587,985** | **3,774,725** | **5,107,338** | **3,762,318** | **3,499,284** | **3,218,000** |

# Table 17

*Exports of Steel Mill Products*

(Net tons)

| Months | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 | 1978 | 1977 |
|---|---|---|---|---|---|---|---|---|---|---|
| January | 86,828 | 65,997 | 86,253 | 94,513 | 173,403 | 255,736 | 197,768 | 192,619 | 160,338 | 162,280 |
| February | 72,764 | 73,275 | 73,074 | 92,122 | 153,543 | 212,903 | 295,675 | 164,693 | 207,583 | 204,787 |
| March | 73,830 | 76,528 | 79,994 | 88,940 | 197,296 | 260,094 | 276,266 | 216,844 | 191,463 | 201,535 |
| April | 72,371 | 71,252 | 72,687 | 105,754 | 147,572 | 291,048 | 321,393 | 226,446 | 204,708 | 232,818 |
| May | 61,209 | 84,930 | 90,031 | 100,931 | 194,314 | 259,418 | 337,821 | 236,756 | 255,466 | 178,011 |
| June | 70,194 | 83,233 | 85,895 | 100,182 | 180,094 | 279,433 | 417,941 | 255,187 | 270,996 | 151,195 |
| July | 67,643 | 81,333 | 89,790 | 108,250 | 145,546 | 217,564 | 398,417 | 233,706 | 174,335 | 135,753 |
| August | 85,591 | 100,855 | 94,076 | 100,123 | 152,434 | 194,438 | 448,915 | 249,507 | 208,456 | 142,849 |
| September | 102,950 | 63,385 | 76,358 | 99,000 | 158,258 | 228,080 | 400,518 | 244,488 | 174,305 | 170,806 |
| October | 71,825 | 77,090 | 88,558 | 109,868 | 133,356 | 233,084 | 366,179 | 281,453 | 217,741 | 125,386 |
| November | 87,180 | 73,202 | 61,026 | 114,210 | 105,988 | 244,423 | 315,875 | 226,700 | 194,487 | 148,396 |
| December | 76,770 | 80,894 | 82,645 | 84,459 | 97,370 | 227,490 | 323,827 | 289,312 | 248,453 | 149,161 |
| **Total*** | **929,156** | **931,976** | **980,414** | **1,198,577** | **1,842,267** | **2,903,793** | **4,100,683** | **2,817,935** | **2,421,688** | **2,003,101** |

*Totals include adjustments not shown in monthly figures

# Table 17

## *Exports of Iron and Steel Products by Countries of Destination—1986*

**(Net tons)**

| Products | Grand Total | Canada | Mexico | LATIN AMERICA Vene-zuela | Brazil | Argen-tina | Total Latin Am. |
|---|---|---|---|---|---|---|---|
| **Steel Mill Products** | | | | | | | |
| Ingots, bloom, billets, slabs, etc | 58,885 | 4,366 | 2,446 | 22 | 16,123 | — | 27,584 |
| Wire rods | 5,876 | 1,330 | 1,933 | 95 | 37 | 59 | 2,644 |
| Structural shapes (3" and over) | 31,697 | 21,944 | 2,619 | — | 205 | 80 | 5,724 |
| Sheet piling | 5,729 | 94 | — | — | — | — | 153 |
| Plates | 69,565 | 23,838 | 14,344 | 383 | 46 | 25 | 18,758 |
| Rails—Standard | 1,660 | 274 | 76 | — | — | 25 | 1,068 |
| —Iron or steel (NEC) | 2,402 | 634 | 944 | 91 | — | 73 | 1,383 |
| Rail joints and tie plates | 5,385 | 3,603 | 609 | 69 | — | 1 | 967 |
| Wheels and axles | 3,685 | 533 | 431 | 265 | 40 | 20 | 1,029 |
| Bars—Hot rolled | 45,253 | 17,926 | 13,492 | 686 | 42 | 109 | 15,553 |
| Bar shapes under 3" | 6,995 | 1,433 | 2,208 | 67 | — | — | 4,060 |
| Concrete reinforcing bars | 14,197 | 574 | 604 | — | — | — | 4,463 |
| Cold finished bars | 12,636 | 5,951 | 2,129 | 24 | 156 | 3 | 3,614 |
| Tool steel | 2,144 | 728 | 156 | 41 | 33 | — | 677 |
| Standard pipe | 14,375 | 3,097 | 2,993 | 139 | — | — | 7,112 |
| Oil country goods | 35,619 | 5,882 | 3,252 | 3,112 | 524 | 270 | 15,996 |
| Line pipe | 10,531 | 1,113 | 2,204 | 970 | — | — | 6,785 |
| Mechanical tubing | 25,461 | 15,278 | 7,420 | 50 | — | — | 7,484 |
| Pressure tubing | 4,492 | 2,581 | 670 | 364 | 10 | 6 | 1,114 |
| Stainless pipe and tubing | 3,040 | 1,038 | 431 | 22 | 67 | 25 | 1,180 |
| Pipe and tubing nonclassified | 25,916 | 7,136 | 3,911 | 286 | 48 | 56 | 9,094 |
| Structural pipe and tubing | 1,616 | 93 | 325 | 2 | — | 9 | 586 |
| Wire drawn | 26,081 | 8,241 | 3,220 | 145 | 324 | 36 | 5,519 |
| Wire—Nails and staples | 5,862 | 2,121 | 312 | 45 | 5 | 9 | 1,459 |
| —Barbed: iron or steel | 2,636 | 226 | 66 | — | — | — | 761 |
| Black plate | 70,488 | 931 | 25,376 | — | — | 780 | 28,254 |
| Tin plate | 206,286 | 1,847 | 1,582 | 102 | 1,277 | 5,877 | 17,378 |
| Tin free steel | 2,699 | 41 | 22 | 43 | — | — | 227 |
| Sheets—Hot rolled | 75,906 | 10,018 | 18,660 | 178 | 14 | 117 | 20,412 |
| —Cold rolled | 28,094 | 10,311 | 9,474 | 237 | 80 | 491 | 10,990 |
| Sheets & strip galvanized | 27,365 | 19,562 | 3,859 | 11 | 31 | — | 5,039 |
| Coated sheets | 52,457 | 24,213 | 2,109 | 1 | 26 | 822 | 4,613 |
| Electrical sheets & strip | 10,122 | 3,329 | 3,785 | 744 | 264 | 264 | 5,091 |
| Strip—Hot rolled | 13,683 | 2,166 | 8,215 | 280 | 3 | 34 | 8,973 |
| —Cold rolled | 20,319 | 13,687 | 2,241 | 14 | 87 | 25 | 2,930 |
| **Total Steel Mill Products** | **929,156** | **216,141** | **142,118** | **8,484** | **19,431** | **9,224** | **248,672** |
| Carbon | 687,029 | 153,157 | 87,311 | 4,992 | 17,871 | 8,283 | 162,081 |
| Alloy | 193,723 | 54,875 | 38,904 | 3,066 | 1,304 | 508 | 66,499 |
| Stainless | 48,404 | 8,108 | 15,902 | 426 | 256 | 433 | 20,092 |

Country detail may not add to regional total because of ommissions of some countries

# Table 17 *(continued)*

## *Exports of Iron and Steel Products by Countries of Destination—1986*

**(Net tons)**

| Products | EUROPE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | EUROPEAN ECONOMIC COMMUNITY | | | | | | | | | |
| | United Kingdom | Netherlands | Belgium-Luxembourg | France | Fed. Rep. Germany | Italy | Spain | Total E.E.C.* | Sweden | Total Other Europe |
| **Steel Mill Products** | | | | | | | | | | |
| Ingots, bloom, billets, slabs, etc. | 186 | 97 | 227 | 43 | 1,013 | 9,248 | — | 10,871 | 130 | 3,121 |
| Wire rods | 222 | 93 | 154 | 27 | 79 | 12 | 9 | 646 | 3 | 7 |
| Structural shapes (3" and over) | 895 | — | — | 11 | 2 | 41 | 7 | 977 | 24 | 145 |
| Sheet piling | — | — | — | — | 43 | — | — | 43 | 1 | 1 |
| Plates | 2,549 | 6 | 6 | 32 | 2,102 | 1,903 | 204 | 8,027 | 153 | 1,456 |
| Rails—Standard | — | — | — | — | — | 263 | — | 263 | — | — |
| —Iron or steel (NEC) | — | 6 | 1 | 4 | 19 | — | — | 31 | — | — |
| Rail joints and tie plates | — | — | 1 | 1 | — | 9 | — | 10 | 1 | 67 |
| Wheels and axles | 3 | — | 5 | 504 | 111 | 1 | 9 | 735 | — | 7 |
| Bars—Hot rolled | 322 | 193 | 296 | 105 | 138 | 107 | 1 | 1,020 | 1,535 | 1,691 |
| Bar shapes under 3" | 60 | 68 | 58 | 31 | 3 | 32 | 6 | 288 | — | 18 |
| Concrete reinforcing bars | — | — | — | 90 | 1 | — | 7 | 98 | — | 79 |
| Cold finished bars | 225 | 211 | 81 | 54 | 271 | 156 | 19 | 1,226 | 221 | 913 |
| Tool steel | 54 | 8 | 13 | 80 | 170 | 26 | — | 398 | 3 | 10 |
| Standard pipe | 291 | 1 | — | 24 | 103 | 3 | 17 | 434 | 2 | 4 |
| Oil country goods | 1,026 | 401 | — | 27 | 30 | 2,562 | 11 | 4,065 | 350 | 859 |
| Line pipe | 319 | — | — | 10 | 146 | 3 | — | 1,508 | — | 14 |
| Mechanical tubing | 65 | 366 | 19 | 6 | 4 | 4 | — | 769 | 27 | 43 |
| Pressure tubing | 54 | 17 | 2 | 10 | 3 | 28 | 1 | 134 | — | 107 |
| Stainless pipe & tubing | 113 | 9 | 11 | 17 | 30 | 29 | 6 | 291 | 16 | 44 |
| Pipe and tubing nonclassified | 249 | 1,172 | 50 | 80 | 105 | 841 | 509 | 2,943 | 115 | 243 |
| Structural pipe and tubing | 8 | 15 | — | — | — | 3 | 4 | 27 | — | — |
| Wire drawn | 251 | 87 | 216 | 83 | 586 | 53 | 83 | 1,451 | 58 | 1,219 |
| Wire—Nails and staples | 284 | 87 | 183 | 140 | 114 | 26 | 7 | 1,077 | 72 | 134 |
| —Barbed, quick or steel | 216 | 429 | 5 | — | 13 | 16 | — | 700 | — | 3 |
| Black plate | — | — | — | 20 | 17 | 1,153 | 42 | 1,604 | — | — |
| Tin plate | 283 | 225 | — | — | 19 | 28,646 | 1,812 | 31,581 | 3 | 97 |
| Tin free steel | 1,704 | — | — | 21 | 80 | 255 | — | 2,031 | — | — |
| Sheets—Hot rolled | 7,228 | 50 | 195 | 26 | 115 | 5,904 | 95 | 17,917 | 579 | 840 |
| —Cold rolled | 401 | 13 | — | 58 | 540 | 75 | 23 | 1,114 | 12 | 33 |
| Sheets & strip galvanized | 1 | 80 | 66 | 11 | — | 6 | 53 | 217 | — | 144 |
| Coated sheets | 110 | 67 | 3,678 | 174 | 1,029 | 1,099 | 1,944 | 11,125 | 54 | 172 |
| Electrical sheet & strip | 5 | 6 | — | 19 | 547 | 4 | 25 | 612 | — | 3 |
| Strip—Hot rolled | 149 | 19 | 31 | 4 | 30 | 17 | — | 499 | 1 | 31 |
| —Cold rolled | 116 | 78 | 7 | 61 | 645 | 299 | 14 | 1,256 | 69 | 406 |
| **Total Steel Mill Products** | **17,924** | **3,789** | **6,117** | **2,055** | **8,466** | **55,984** | **4,828** | **105,988** | **3,547** | **11,935** |
| Carbon | 13,543 | 2,733 | 5,271 | 1,471 | 6,957 | 50,356 | 4,499 | 89,668 | 1,854 | 4,459 |
| Alloy | 1,909 | 770 | 538 | 352 | 1,315 | 456 | 286 | 13,156 | 1,162 | 6,607 |
| Stainless | 902 | 286 | 148 | 114 | 1,099 | 538 | 43 | 3,162 | 531 | 869 |

*Includes totals for Ireland, Denmark, Greece, & Portugal.

# Table 17 *(continued)*

## *Exports of Iron and Steel Products by Countries of Destination—1986*

**(Net tons)**

| Products | ASIA | | | | | OCEANIA | | | AFRICA | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hong Kong | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Egypt | Republic of South Africa | Total Africa |
| **Steel Mill Products** | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 80 | 6,560 | 4,441 | 146 | 12,720 | 21 | 23 | 180 | 12 | 201 |
| Wire rods | 11 | 17 | 631 | 30 | 1,100 | 16 | 19 | 111 | 5 | 130 |
| Structural shapes 15" and over | 31 | 503 | — | 158 | 2,522 | 14 | 40 | 14 | | 346 |
| Sheet piling | — | — | — | — | — | 16 | 16 | | | 5,422 |
| Plates | 430 | 4,178 | 154 | 430 | 16,035 | 84 | 254 | 141 | 106 | 1,198 |
| Rails—Standard | | | — | 5 | 46 | 4 | 4 | | | 5 |
| Iron or steel (lt.C) | — | 37 | 60 | 2 | 344 | — | — | | 6 | 11 |
| Rail joints and tie plates | — | — | 1 | 1 | 15 | 2 | 2 | | | 699 |
| Wheels and axles | 80 | 1 | 1 | 109 | 797 | 16 | 16 | | | 567 |
| Bars—Hot rolled | 90 | 1,479 | 213 | 1,001 | 7,801 | 325 | 330 | 17 | 80 | 933 |
| Bar shapes under 15" | 4 | 165 | 15 | 14 | 515 | 552 | 589 | 6 | | 92 |
| Concrete reinforcing bars | — | — | 40 | 4 | 307 | — | 16 | 8,605 | | 8,657 |
| Cold finished bars | 78 | 36 | 107 | 83 | 751 | 4 | 59 | 37 | 11 | 112 |
| Tool steel | 1 | 1 | 2 | 1 | 243 | 10 | 41 | | 41 | 46 |
| Standard pipe | 6 | 23 | 43 | 36 | 3,101 | 1,161 | 157 | 69 | 111 | 469 |
| Oil country goods | 9 | 3 | 105 | 104 | 1,788 | 82 | 163 | 1,110 | | 6,866 |
| Line pipe | — | 17 | 8 | 16 | 743 | 8 | 60 | 3 | | 309 |
| Mechanical tubing | — | 26 | — | 9 | 282 | 1,566 | 1,586 | | 13 | 15 |
| Pressure tubing | — | 24 | 43 | 33 | 431 | 178 | 42 | 11 | 3 | 84 |
| Stainless pipe and tubing | 1 | 20 | 10 | 63 | 311 | 3 | 12 | | 3 | 164 |
| Pipe and tubing, nonclassified | 35 | 225 | 45 | 141 | 5,323 | 83 | 160 | 101 | 31 | 1,016 |
| Structural pipe and tubing | — | 162 | 11 | — | 767 | — | 6 | 14 | — | 139 |
| Wire drawn | 124 | 562 | 1,442 | 18 | 9,285 | 1,163 | 165 | 13 | 13 | 201 |
| Wire—Nails and staples | 126 | 79 | 41 | 135 | 687 | 138 | 241 | — | 31 | 143 |
| Barbed, rolled or steel | 1 | 1,667 | 17 | 8 | 839 | 24 | 27 | — | 47 | 80 |
| Black plate | 1,903 | — | 6,350 | 1,750 | 39,332 | 73 | 79 | | | 289 |
| Tin plate | 34,108 | 961 | 17,909 | 49 | 136,790 | 18 | 28 | 18,291 | | 18,565 |
| Tin free steel | 111 | — | — | — | 399 | — | — | | | — |
| Sheets—Hot rolled | 116 | 109 | 940 | 1,393 | 26,610 | 10 | 28 | 4 | 3 | 82 |
| Cold rolled | 191 | 113 | 124 | 23 | 5,562 | 17 | 60 | 11 | | 26 |
| Sheets & strip, galvanized | — | — | 11 | 17 | 2,319 | 5 | 11 | 8 | | 72 |
| Coated sheets | 4,135 | 139 | 1,362 | 923 | 11,844 | 83 | 389 | 1 | 1 | 101 |
| Electrical sheets & strip | — | 14 | 114 | 70 | 517 | — | — | 11 | | 569 |
| Strip—Hot rolled | 14 | 7 | 46 | 321 | 1,948 | 16 | 17 | 1 | 11 | 50 |
| Cold rolled | 5 | 1 | 247 | 126 | 1,870 | 139 | 151 | | 12 | 16 |
| **Total Steel Mill Products** | 49,557 | 15,758 | 51,060 | 31,925 | 293,942 | 4,071 | 4,606 | 30,088 | 802 | 47,672 |
| Carbon | 46,230 | 14,111 | 47,104 | 31,932 | 234,322 | 1,709 | 2,050 | 28,301 | 132 | 41,292 |
| Alloy | 2,327 | 1,134 | 3,956 | 1,414 | 43,915 | 2,311 | 2,590 | 1,749 | 671 | 6,079 |
| Stainless | 801 | 513 | 1,000 | 579 | 15,706 | 51 | 166 | 38 | 91 | 301 |

# Table 17A

*Exports of Iron and Steel Products by Countries of Destination—1986*

(Net tons)

| Products | Grand Total | Canada | Mexico | LATIN AMERICA Vene-zuela | Brazil | Argen-tina | Total Latin Am |
|---|---|---|---|---|---|---|---|
| **Other Steel Products** | | | | | | | |
| [illegible] | 3,088 | [illegible] | [illegible] | [illegible] | [illegible] | | 851 |
| [illegible] | 34,098 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 17,557 |
| [illegible] | 4,242 | [illegible] | [illegible] | | | | 1,326 |
| [illegible] | 77,725 | [illegible] | [illegible] | [illegible] | | | 77,507 |
| [illegible] | 2,812 | [illegible] | [illegible] | [illegible] | | | 1,661 |
| [illegible] | 44,186 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 3,089 |
| [illegible] | 2,552 | [illegible] | [illegible] | | | | 1,775 |
| [illegible] | 7,465 | [illegible] | [illegible] | [illegible] | [illegible] | | 2,760 |
| [illegible] | 11,347 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 6,509 |
| [illegible] | 11,069 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1,255 |
| [illegible] | 2,627 | [illegible] | [illegible] | [illegible] | | | 963 |
| [illegible] | 8,046 | [illegible] | [illegible] | | [illegible] | [illegible] | 2,062 |
| [illegible] | 1,243 | [illegible] | [illegible] | | | | 120 |
| [illegible] | 46,649 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 3,962 |
| [illegible] | 6,846 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1,282 |
| [illegible] | 21,528 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 3,742 |
| Total Other Steel Products | 285,522 | 101,734 | 97,416 | 1,839 | 366 | 371 | 126,422 |
| Total Steel Products | 1,214,678 | 317,875 | 239,534 | 10,323 | 19,797 | 9,595 | 375,094 |
| **Iron Products and Ferroalloys** | | | | | | | |
| [illegible] | 16,603 | [illegible] | [illegible] | | [illegible] | | 3,202 |
| [illegible] | 39,176 | [illegible] | [illegible] | [illegible] | | | 5,350 |
| [illegible] | 5,853 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 920 |
| [illegible] | 3,168 | [illegible] | [illegible] | [illegible] | | | 718 |
| [illegible] | 40,473 | [illegible] | [illegible] | [illegible] | [illegible] | | 302 |
| [illegible] | 47,051 | [illegible] | [illegible] | [illegible] | [illegible] | | 665 |
| [illegible] | 11,529 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 4,342 |
| [illegible] | 72,722 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 5,698 |
| Total Iron Products and Ferroalloys | 236,576 | 76,348 | 7,925 | 1,559 | 2,183 | 1,122 | 21,197 |
| Grand Total | 1,451,254 | 394,223 | 247,459 | 11,882 | 21,980 | 10,717 | 396,291 |
| [illegible] | 11,703,677 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1,305,399 |

# Table 17A *(continued)*

## *Exports of Iron and Steel Products by Countries of Destination—1986*

**(Net tons)**

| Products | EUROPE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | EUROPEAN ECONOMIC COMMUNITY | | | | | | | | | |
| | United Kingdom | Nether-lands | Belgium-Luxembourg | France | Fed. Rep Germany | Italy | Spain | Total E.E.C.* | Sweden | Total Other Europe |
| **Other Steel Products** | | | | | | | | | | |
| | | | | | | | | 53 | | 5 |
| | | | | | | | | 2,154 | | 571 |
| | | | | | | | | 589 | | 45 |
| | | | | | | | | — | | — |
| | | | | | | | | 39 | | 67 |
| | | | | | | | | 2,075 | | 268 |
| | | | | | | | | 57 | | 96 |
| | | | | | | | | 437 | | 156 |
| | | | | | | | | 1,902 | | 170 |
| | | | | | | | | 264 | | 23 |
| | | | | | | | | 89 | | 10 |
| | | | | | | | | 502 | | 28 |
| | | | | | | | | 59 | | — |
| | | | | | | | | 2,595 | | 96 |
| | | | | | | | | 538 | | 75 |
| | | | | | | | | 1,578 | | 349 |
| Total Other Steel Products | 3,870 | 1,254 | 1,301 | 1,095 | 3,881 | 613 | 323 | 12,931 | 460 | 1,959 |
| Total Steel Products | 21,794 | 5,043 | 7,418 | 3,150 | 12,327 | 56,597 | 5,151 | 118,919 | 4,007 | 13,894 |
| **Iron Products and Ferroalloys** | | | | | | | | | | |
| | | | | | | | | 1,888 | | 24 |
| | | | | | | | | 5 | | 27 |
| | | | | | | | | 118 | | 33 |
| | | | | | | | | 42 | | 13 |
| | | | | | | | | 98 | | 3 |
| | | | | | | | | 31,593 | | 1,058 |
| | | | | | | | | 1,511 | | 277 |
| | | | | | | | | 41,749 | | 317 |
| Total Iron Products and Ferroalloys | 2,275 | 445 | 21,916 | 4,795 | 17,467 | 23,989 | 1,052 | 77,004 | 430 | 1,751 |
| Grand Total | 24,069 | 5,488 | 29,334 | 7,945 | 29,790 | 85,586 | 6,203 | 195,923 | 4,437 | 15,645 |
| | | | | | | | | 1,225,785 | | 1,441,506 |

# Table 17A *(continued)*

## *Exports of Iron and Steel Products by Countries of Destination—1986*

(Net tons)

| Products | ASIA | | | | | OCEANIA | | AFRICA | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hong Kong | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Egypt | Republic of South Africa | Total Africa |
| **Other Steel Products** | | | | | | | | | | |
| | | | | | 555 | 1 | 4 | | | 55 |
| | | | | | 5.443 | 1 | 161 | | | 2.849 |
| | | | | | 1.332 | | 46 | | | 113 |
| | | | | | — | | — | | | — |
| | | | | | 249 | | 2 | | | 3 |
| | | | | | 824 | | 295 | | | 407 |
| | | | | | 344 | | 3 | | | 85 |
| | | | | | 1.475 | | 32 | | | 115 |
| | | | | | 502 | | 80 | | | 125 |
| | | | | | 220 | | 63 | | | 9 |
| | | | | | 576 | | 92 | | | 223 |
| | | | | | 2.444 | | 72 | | | 228 |
| | | | | | 46 | | — | | | 9 |
| | | | | | 1.115 | | 16.244 | | | 18 |
| | | | | | 573 | | 139 | | | 31 |
| | | | | | 3.788 | | 380 | | | 1.106 |
| **Total Other Steel Products** | 773 | 1.668 | 1.000 | 3.076 | 19.487 | 1.108 | 17.612 | 2.525 | 397 | 5.376 |
| **Total Steel Products** | 50.330 | 17.626 | 52.680 | 35.091 | 313.429 | 5.179 | 22.418 | 32.613 | 1.199 | 53.048 |
| **Iron Products and Ferroalloys** | | | | | | | | | | |
| | | | | | 10.066 | | 1 | | | 411 |
| | | | | | 33.242 | | 3 | | | 120 |
| | | | | | 2.894 | | 127 | | | 258 |
| | | | | | 353 | | 16 | | | 28 |
| | | | | | 117 | | 35 | | | 22 |
| | | | | | 6.311 | | — | | | — |
| | | | | | 517 | | 213 | | | 84 |
| | | | | | 4.219 | | 1.070 | | | 167 |
| **Total Iron Products and Ferroalloys** | 94 | 6.128 | 395 | 3.587 | 57.720 | 1.422 | 1.465 | 519 | 90 | 1.092 |
| **Grand Total** | 50.424 | 23.754 | 52.455 | 38.588 | 371.149 | 6.601 | 23.883 | 33.132 | 1.289 | 54.140 |
| | | | | | 7.351.134 | | 37 | | | 14.368 |

# Table 18

## *Imports of Iron and Steel Products*

**(Net tons)**

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Steel Mill Products: | | | | | |
| Ingots, blooms, slabs, and billets, etc. | 2,084,096 | 2,440,368 | 1,515,837 | 822,483 | 716,588 |
| Wire rods | 1,357,875 | 1,479,176 | 1,589,788 | 1,185,291 | 941,390 |
| Structural shapes (plain 3" & over) | 1,748,604 | 1,978,711 | 2,046,630 | 1,444,721 | 1,483,481 |
| Steel piling | 107,013 | 139,807 | 108,995 | 113,554 | 114,859 |
| Plates | 1,106,904 | 1,377,921 | 1,538,495 | 1,103,199 | 1,619,527 |
| Rails and track accessories | 266,084 | 358,441 | 350,299 | 152,853 | 320,341 |
| Wheels and axles | 9,626 | 23,604 | 23,591 | 6,500 | 19,931 |
| Concrete reinforcing bars | 454,735 | 411,450 | 434,147 | 208,303 | 51,676 |
| Bar shapes under 3" | 166,369 | 140,318 | 174,788 | 88,288 | 59,707 |
| Bars—Hot rolled | 582,580 | 645,631 | 750,042 | 457,094 | 463,362 |
| —Cold finished | 224,696 | 314,865 | 328,419 | 191,605 | 218,306 |
| Tool steel | 44,749 | 37,142 | 32,054 | 30,423 | † |
| Standard pipe | 697,034 | 977,539 | 1,068,753 | 971,410 | 705,517 |
| Oil country goods | 616,743 | 1,497,972 | 2,206,595 | 564,769 | 2,179,862 |
| Line pipe | 817,861 | 1,042,356 | 982,669 | 494,424 | 1,122,408 |
| Mechanical tubing | 237,247 | 328,251 | 283,248 | 40,124 | 49,424 |
| Pressure tubing | 23,981 | 43,985 | 51,653 | 48,459 | 48,594 |
| Stainless pipe & tubing | 35,653 | 33,876 | 32,186 | 19,159 | † |
| Structural pipe & tubing | 479,768 | 502,112 | 320,691 | 186,621 | † |
| Other pipe and tubing | 28,524 | 37,577 | 475,918 | 537,095 | 1,144,143 |
| Wire drawn | 594,433 | 623,076 | 678,367 | 458,632 | 334,201 |
| Bale ties & baling wire | 696 | 885 | 2,986 | 448 | 129 |
| Galvanized wire fencing | 11,509 | 14,099 | 11,307 | 10,142 | 8,448 |
| Wire nails | 393,231 | 402,425 | 458,326 | 374,038 | 264,365 |
| Barbed wire | 22,157 | 15,336 | 27,729 | 28,927 | 18,162 |
| Black plate | 205,937 | 241,375 | 278,003 | 170,420 | 119,507 |
| Tin plate | 359,658 | 398,564 | 355,777 | 290,535 | 216,243 |
| Tin free steel | 110,569 | 145,606 | 104,001 | 62,170 | †††† |
| Terne plate | †† | †† | †† | †† | 2,153 |
| Sheets—Hot rolled | 2,395,926 | 2,785,583 | 3,033,150 | 2,316,786 | 1,355,027 |
| —Cold rolled | 2,692,824 | 2,701,645 | 3,594,729 | 2,417,195 | 1,706,699 |
| —Galvanized††† | 2,321,108 | 2,465,419 | 2,729,584 | 1,824,163 | 1,227,875 |
| All other metalic coated | 209,730 | 204,250 | 224,232 | 286,295 | (Incl. in Galv.) |
| Electrical sheets & strip | 81,703 | 118,834 | 89,324 | 46,595 | ††††† |
| Strip—Hot rolled | 43,557 | 62,154 | 79,591 | 32,531 | 21,653 |
| —Cold rolled | 159,135 | 265,296 | 181,313 | 84,644 | 49,207 |
| —Hot and cold rolled—Alloy | † | † | † | † | 22,361 |
| Sheets—Other—Electric coated | † | † | † | † | 57,388 |
| **Total Steel Mill Products** | **20,692,316** | **24,255,651** | **26,163,218** | **17,069,895** | **16,662,532** |
| Carbon | 19,542,052 | 22,863,841 | 24,913,727 | 16,343,643 | 15,376,328 |
| Alloy | 855,078 | 1,120,731 | 986,938 | 535,928 | 1,083,683 |
| Stainless | 295,186 | 271,079 | 262,554 | 190,324 | 202,521 |

†included in other individual product classifications.
††included in all other metalic coated.
†††includes all other metalic ctd. prior to 1983.
††††included in sheets other elec. ctd.
†††††included in sheets HR, strip cr.

# Table 18 *(continued)*

## *Imports of Iron and Steel Products*

(Net tons)

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Other Steel Products: | | | | | |
| Structural shapes, fabricated | 424,966 | 354,011 | 278,310 | 203,312 | 144,959 |
| Shapes—Cold formed | 2,178 | 1,951 | 1,770 | 1,552 | 615 |
| Sashes and frames | 4,394 | 3,085 | 2,785 | 1,432 | 997 |
| Fence or sign posts | 4,930 | 8,731 | 12,317 | 5,909 | 2,805 |
| Wire—Nonmetalic coated | 1,451 | 1,479 | 1,034 | 747 | 528 |
| Wire rope | 129,449 | 156,473 | 147,820 | 106,594 | 108,593 |
| Wire strand | 177,225 | 176,376 | 184,704 | 163,228 | 172,803 |
| Welded wire fabric | 51,699 | 40,276 | 23,167 | 17,755 | 19,933 |
| Other nails and staples | 45,437 | 41,553 | 44,554 | 38,117 | 23,530 |
| Bale ties, made from strip | 615 | 743 | 675 | 643 | 1,196 |
| Bolts, nuts, and rivets | 638,325 | 626,799 | 674,880 | 443,142 | 421,661 |
| Grinding balls | 4,134 | 3,559 | 10,804 | 4,990 | 8,699 |
| Blanks, nonrectangular flat rolled | 47,822 | 36,156 | 13,085 | 5,536 | 4,016 |
| Conduit | 22,871 | 21,258 | 3,915 | 3,169 | 1,656 |
| Pipe and tube fittings | 106,848 | 129,331 | 110,370 | 72,657 | 113,186 |
| **Total Other Steel Products** | **1,662,344** | **1,601,783** | **1,510,189** | **1,068,782** | **1,025,177** |
| **Total Steel Products** | **22,354,660** | **25,857,434** | **27,673,407** | **18,138,677** | **17,687,709** |
| Iron Products and Ferroalloys: | | | | | |
| Bar iron, iron slabs and blooms, etc | 127 | 231 | 117 | 150 | 73 |
| Cast iron soil pipe and fittings | 5,297 | 4,164 | 1,729 | 439 | 514 |
| Other cast iron pipe and fittings | 16,634 | 38,663 | 14,887 | 9,541 | 8,745 |
| Malleable cast iron pipe fittings | 20,965 | 24,293 | 26,276 | 19,153 | 18,718 |
| Castings and forgings | 200,631 | 209,302 | 176,234 | 106,874 | 108,163 |
| Pig iron | 294,967 | 338,260 | 702,461 | 242,142 | 321,699 |
| Sponge iron | 97,585 | 103,534 | 175,328 | 135,321 | 50,471 |
| Ferromanganese (manganese content) | 388,093 | 361,884 | 320,790 | 266,327 | 379,167 |
| Ferrosilicon (silicon content) | 218,576 | 152,436 | 96,302 | 106,666 | 53,130 |
| Ferrochromium (chromium content) | 387,867 | 331,013 | 242,723 | 162,998 | 84,777 |
| Other ferroalloys | 252,399 | 211,327 | 117,820 | 113,096 | 56,836 |
| **Total Iron Products and Ferroalloys** | **1,883,140** | **1,775,108** | **1,874,666** | **1,162,707** | **1,082,293** |
| **Grand Total** | **24,237,800** | **27,632,542** | **29,548,073** | **19,301,384** | **18,770,002** |
| Iron and Steel Scrap | 723,562 | 611,358 | 577,251 | 640,770 | 474,190 |

# Table 19

*Imports of Iron and Steel Products*

**(Net tons)**

| Products | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 | 1978 | 1977 |
|---|---|---|---|---|---|---|---|---|---|---|
| Steel Mill Products | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 2,084,096 | 2,440,368 | 1,515,837 | 822,483 | 716,588 | 790,062 | 155,343 | 344,693 | 413,899 | 297,711 |
| Wire rods | 1,357,875 | 1,479,176 | 1,589,788 | 1,185,291 | 941,390 | 888,442 | 829,259 | 985,414 | 1,326,580 | 1,341,575 |
| Structural shapes and piling | 1,855,617 | 2,118,518 | 2,155,625 | 1,558,275 | 1,598,340 | 2,075,508 | 1,828,966 | 1,984,782 | 1,926,967 | 1,817,187 |
| Plates | 1,106,904 | 1,377,921 | 1,538,495 | 1,103,199 | 1,619,527 | 2,447,688 | 2,059,713 | 1,819,812 | 2,924,989 | 2,116,459 |
| Rails and accessories | 275,710 | 382,045 | 373,890 | 159,353 | 340,272 | 318,569 | 414,076 | 313,223 | 285,885 | 207,191 |
| Bars and tool steel | 1,473,129 | 1,549,406 | 1,719,450 | 975,713 | 793,051 | 986,081 | 859,989 | 1,127,414 | 1,337,014 | 1,363,907 |
| Pipe and tubing | 2,936,811 | 4,463,668 | 5,421,713 | 2,862,061 | 5,249,948 | 6,568,556 | 3,776,535 | 2,920,019 | 3,045,910 | 2,473,740 |
| Wire and wire products | 1,022,026 | 1,055,821 | 1,178,715 | 872,187 | 625,303 | 723,975 | 714,874 | 827,257 | 1,074,781 | 977,234 |
| Tin mill products | 676,164 | 785,545 | 737,781 | 523,125 | 337,903 | 386,255 | 377,542 | 344,851 | 426,566 | 465,134 |
| Sheets and strip | 7,903,983 | 8,603,181 | 9,931,923 | 7,008,209 | 4,440,210 | 4,713,204 | 4,478,673 | 6,850,670 | 8,371,991 | 8,246,474 |
| **Total Steel Mill Products** | **20,692,316** | **24,255,651** | **26,163,218** | **17,069,895** | **16,662,532** | **19,898,340** | **15,494,970** | **17,518,135** | **21,134,582** | **19,306,612** |
| Other Steel Products | 1,662,344 | 1,601,783 | 1,510,189 | 1,068,782 | 1,025,177 | 1,080,715 | 1,016,709 | 1,149,511 | 1,129,578 | 985,233 |
| **Total Steel Products** | **22,354,660** | **25,857,434** | **27,673,407** | **18,138,677** | **17,687,709** | **20,979,055** | **16,511,679** | **18,667,646** | **22,264,160** | **20,291,845** |
| Iron Products and Ferroalloys | 1,883,140 | 1,775,108 | 1,874,666 | 1,162,707 | 1,082,293 | 1,650,325 | 1,366,341 | 1,658,908 | 1,804,126 | 1,366,278 |
| **Grand Total** | **24,237,800** | **27,632,542** | **29,548,073** | **19,301,384** | **18,770,002** | **22,629,380** | **17,878,020** | **20,326,554** | **24,068,286** | **21,658,123** |

# Table 20

*Imports of Steel Mill Products*

**(Net tons)**

| Months | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 | 1978 | 1977 |
|---|---|---|---|---|---|---|---|---|---|---|
| January | 1,748,205 | 2,661,496 | 2,081,905 | 1,097,621 | 1,968,663 | 1,281,332 | 1,265,093 | 1,264,346 | 1,537,793 | 1,121,267 |
| February | 2,042,595 | 2,047,766 | 2,160,912 | 1,156,903 | 1,600,300 | 1,234,087 | 1,666,905 | 1,329,115 | 2,219,592 | 1,002,459 |
| March | 1,963,629 | 2,028,519 | 2,225,055 | 1,113,127 | 1,355,969 | 1,141,878 | 1,119,981 | 1,095,893 | 1,988,233 | 1,175,410 |
| April | 1,597,645 | 1,908,639 | 2,215,824 | 1,182,177 | 1,029,288 | 1,760,883 | 1,249,874 | 1,071,955 | 2,174,892 | 1,114,786 |
| May | 1,625,683 | 1,954,680 | 1,997,669 | 1,352,954 | 1,695,850 | 1,772,326 | 1,614,653 | 1,654,757 | 1,511,255 | 1,817,390 |
| June | 1,732,361 | 2,360,744 | 1,775,968 | 1,296,840 | 1,783,632 | 1,665,347 | 1,202,689 | 1,365,619 | 1,359,820 | 1,818,620 |
| July | 2,059,421 | 1,577,020 | 2,655,913 | 1,410,816 | 1,113,031 | 1,663,042 | 1,079,040 | 1,514,423 | 1,784,814 | 1,582,037 |
| August | 1,529,357 | 2,028,485 | 2,515,952 | 1,617,273 | 1,450,515 | 2,226,364 | 1,374,121 | 1,783,935 | 1,870,390 | 1,831,115 |
| September | 1,586,335 | 2,539,131 | 2,181,795 | 1,521,966 | 1,190,779 | 1,747,583 | 1,063,755 | 1,640,695 | 1,584,169 | 2,057,413 |
| October | 1,359,103 | 1,302,521 | 1,985,702 | 1,755,164 | 1,145,847 | 1,871,511 | 1,141,939 | 1,603,188 | 1,715,239 | 1,761,726 |
| November | 1,926,933 | 1,699,656 | 2,208,978 | 1,835,197 | 1,258,423 | 1,921,117 | 1,179,301 | 1,651,951 | 2,016,345 | 1,937,947 |
| December | 1,521,047 | 2,146,995 | 2,157,543 | 1,729,858 | 1,090,494 | 1,612,870 | 1,533,920 | 1,542,258 | 1,372,040 | 2,086,549 |
| **Total*** | **20,692,316** | **24,255,651** | **26,163,218** | **17,069,895** | **16,662,532** | **19,898,340** | **15,494,970** | **17,518,135** | **21,134,582** | **19,306,612** |

*Revised totals include adjustments not shown in monthly figures.

# Table 21

## *Imports of Steel Mill Products By Countries of Origin*

**(Net Tons)**

| | 1986 | | | 1985 | | | 1984 | | | 1983 | | | 1982 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** |
| **Canada** | **3,203,059** | **15.5** | **3.6** | **2,868,279** | **11.8** | **3.0** | **3,167,308** | **12.1** | **3.2** | **2,378,617** | **13.9** | **2.9** | **1,844,199** | **11.1** | **2.4** |
| Mexico | 431,394 | 2.1 | 0.5 | 271,794 | 1.1 | 0.3 | 796,812 | 3.0 | 0.8 | 651,009 | 3.8 | 0.8 | 112,875 | 0.7 | 0.1 |
| Brazil | 1,098,164 | 5.3 | 1.2 | 1,701,348 | 7.0 | 1.8 | 1,460,848 | 5.6 | 1.5 | 1,257,006 | 7.4 | 1.5 | 604,636 | 3.6 | 0.8 |
| Argentina | 170,259 | 0.8 | 0.2 | 191,094 | 0.8 | 0.2 | 300,174 | 1.1 | 0.3 | 282,253 | 1.7 | 0.3 | 167,487 | 1.0 | 0.2 |
| **Total Latin America** | **1,962,877** | **9.5** | **2.2** | **2,624,705** | **10.8** | **2.7** | **3,132,081** | **12.0** | **3.2** | **2,414,527** | **14.2** | **2.9** | **974,399** | **5.8** | **1.3** |
| United Kingdom | 702,957 | 3.4 | 0.8 | 611,546 | 2.5 | 0.6 | 476,229 | 1.8 | 0.5 | 363,750 | 2.1 | 0.4 | 486,436 | 2.9 | 0.6 |
| Netherlands | 498,080 | 2.4 | 0.6 | 577,872 | 2.4 | 0.6 | 446,355 | 1.7 | 0.5 | 370,681 | 2.2 | 0.4 | 375,481 | 2.2 | 0.5 |
| Belgium-Luxembourg | 985,372 | 4.8 | 1.1 | 1,061,421 | 4.4 | 1.1 | 921,036 | 3.5 | 0.9 | 615,008 | 3.6 | 0.7 | 929,440 | 5.6 | 1.2 |
| France | 1,205,506 | 5.8 | 1.3 | 1,596,266 | 6.6 | 1.7 | 1,126,512 | 4.3 | 1.1 | 913,743 | 5.4 | 1.1 | 977,372 | 5.9 | 1.3 |
| West Germany | 2,011,542 | 9.7 | 2.2 | 2,361,233 | 9.7 | 2.5 | 2,543,272 | 9.7 | 2.6 | 1,386,655 | 8.1 | 1.7 | 2,080,130 | 12.5 | 2.7 |
| Italy | 456,491 | 2.2 | 0.5 | 614,245 | 2.5 | 0.6 | 654,490 | 2.5 | 0.7 | 395,356 | 2.3 | 0.5 | 643,627 | 3.9 | 0.8 |
| **Total EEC*** | **6,613,750** | **32.0** | **7.3** | **6,977,433** | **28.8** | **7.2** | **6,334,405** | **24.2** | **6.4** | **4,114,298** | **24.1** | **4.9** | **5,596,636** | **33.6** | **7.3** |
| Sweden | 548,065 | 2.6 | 0.6 | 670,820 | 2.8 | 0.7 | 639,354 | 2.4 | 0.6 | 213,811 | 1.3 | 0.3 | 292,231 | 1.8 | 0.4 |
| Finland | 199,285 | 1.0 | 0.2 | 241,294 | 1.0 | 0.3 | 298,735 | 1.1 | 0.3 | 196,294 | 1.1 | 0.2 | 121,256 | 0.7 | 0.2 |
| Poland | 60,609 | 0.3 | 0.1 | 95,401 | 0.4 | 0.1 | 132,289 | 0.5 | 0.1 | 77,242 | 0.5 | 0.1 | 42,253 | 0.3 | 0.1 |
| Spain | 611,708 | 3.0 | 0.7 | 547,178 | 2.3 | 0.6 | 1,392,041 | 5.3 | 1.4 | 609,653 | 3.6 | 0.7 | 547,207 | 3.3 | 0.7 |
| Romania | 87,616 | 0.4 | 0.1 | 355,444 | 1.5 | 0.4 | 264,274 | 1.0 | 0.3 | 9,426 | 0.1 | | 36,730 | 0.2 | |
| Austria | 132,096 | 0.6 | 0.1 | 306,550 | 1.3 | 0.3 | 326,120 | 1.2 | 0.3 | 35,418 | 0.2 | | 102,252 | 0.6 | 0.1 |
| **Total Europe** | **8,051,876** | **38.9** | **8.9** | **9,765,363** | **40.3** | **10.2** | **9,962,748** | **38.1** | **10.1** | **5,309,764** | **31.1** | **6.4** | **6,774,638** | **40.7** | **8.9** |
| Japan | 4,422,244 | 21.4 | 4.9 | 5,974,508 | 24.6 | 6.2 | 6,630,005 | 25.3 | 6.7 | 4,236,915 | 24.8 | 5.1 | 5,185,138 | 31.1 | 6.8 |
| Korea Republic | 1,525,305 | 7.4 | 1.7 | 1,899,043 | 7.8 | 2.0 | 2,234,331 | 8.5 | 2.3 | 1,727,573 | 10.1 | 2.1 | 1,062,076 | 6.4 | 1.4 |
| China-Taiwan | 475,835 | 2.3 | 0.5 | 217,725 | 0.9 | 0.2 | 160,118 | 0.6 | 0.2 | 177,161 | 1.0 | 0.2 | 117,574 | 0.7 | 0.2 |
| Republic of So. Africa | 499,590 | 2.4 | 0.6 | 411,062 | 1.7 | 0.4 | 556,545 | 2.1 | 0.6 | 556,896 | 3.3 | 0.7 | 529,782 | 3.2 | 0.7 |
| **Total Asia & Africa** | **7,266,080** | **35.1** | **8.1** | **8,801,485** | **36.3** | **9.1** | **9,685,397** | **37.0** | **9.8** | **6,761,079** | **39.6** | **8.1** | **6,939,285** | **41.6** | **9.1** |
| **Oceania** | **208,423** | **1.0** | **0.2** | **195,819** | **0.8** | **0.2** | **215,683** | **0.8** | **0.2** | **205,908** | **1.2** | **0.2** | **130,011** | **0.8** | **0.2** |
| **Total Imports of Steel Mill Products** | **20,692,316** | **100.0** | **23.0** | **24,255,651** | **100.0** | **25.2** | **26,163,218** | **100.0** | **26.4** | **17,069,895** | **100.0** | **20.5** | **16,662,532** | **100.0** | **21.8** |

*Includes total for Denmark, Ireland and Greece. 1986 also includes Spain and Portugal.

**As developed in table 1A of this Report.

Country detail may not add to regional total because of omissions of some countries.

# Table 22

## *Imports of Iron and Steel Products by Countries of Origin—1986*

**(Net tons)**

| Products | Grand Total | Canada | Mexico | Latin America: Venezuela | Latin America: Brazil | Latin America: Argentina | Latin America: Total Latin America |
|---|---|---|---|---|---|---|---|
| **Steel Mill Products** | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 2,084,096 | 213,171 | 67,412 | | 405,632 | | 473,597 |
| Wire rods | 1,357,875 | 376,954 | 60,523 | 2,248 | 51,520 | 1,098 | 159,453 |
| Structural shapes-plain 3" & over | 1,748,604 | 275,006 | 16,987 | | 4,459 | 4,038 | 25,560 |
| Steel piling | 107,013 | 21,150 | | | | | ... |
| Plates | 1,106,904 | 181,362 | 12,874 | | 60,474 | 1,890 | 75,238 |
| Rails standard | 192,153 | 70,136 | | | 1 | | 3 |
| Rails other | 52,583 | 12,824 | | | | | ... |
| Joint bars and tie plates | 21,025 | 1,714 | | | | | ... |
| Track spikes | 323 | 17 | | | | | 11 |
| Wheels and axles | 9,626 | 232 | 116 | | 1,872 | | 1,988 |
| Bars—hot rolled | 582,580 | 243,431 | 9,150 | | 19,022 | 10,961 | 49,830 |
| Bars shapes under 3 inches | 166,369 | 56,280 | 1,437 | | 3,651 | 870 | 6,005 |
| Concrete reinforcing bars | 454,735 | 27,198 | 6,316 | 14,417 | 29,660 | | 104,928 |
| Bars—cold finished | 224,696 | 52,384 | 3,256 | | 3,551 | 1,493 | 8,301 |
| Tool steel | 44,749 | 6,172 | 376 | | 1,699 | 134 | 2,209 |
| Standard pipe | 697,034 | 34,248 | 50,122 | 7,109 | 21,209 | 3,519 | 82,036 |
| Oil country goods | 616,743 | 71,287 | 21,418 | 3,129 | 22,844 | 7,220 | 54,610 |
| Line pipe | 81,861 | 60,541 | 32,740 | 17,220 | 89,857 | 11,821 | 151,638 |
| Mechanical tubing | 237,247 | 64,256 | 1,970 | 153 | 1,749 | 1,982 | 6,762 |
| Pressure tubing | 23,981 | 416 | 205 | 1,249 | 824 | 72 | 2,350 |
| Stainless pipe & tubing | 35,653 | 4,474 | 372 | | 6 | | 378 |
| Pipe & tubing nonclassified | 28,524 | 10,405 | 497 | | | 1,279 | 1,776 |
| Structural pipe & tube, square & rectangular | 479,768 | 142,152 | 13,683 | 6,377 | 22,574 | 12,054 | 54,688 |
| Wire drawn | 594,433 | 210,020 | 3,024 | 6,782 | 11,387 | 695 | 25,847 |
| Wire nails | 393,231 | 103,180 | 3,333 | 680 | 1,249 | 811 | 10,549 |
| Barbed wire | 22,157 | 82 | 3,002 | | 8,749 | 9 | 12,399 |
| Galvanized wire fencing | 11,509 | 5,289 | 4,597 | | 94 | | 4,743 |
| Bale ties & bailing wire | 696 | 38 | | | 8 | | 86 |
| Black plate | 205,937 | 8,350 | | | | | ... |
| Tin plate | 359,658 | 60,693 | | 372 | 5,789 | | 6,161 |
| Tin free steel | 110,569 | 6,450 | | 125 | | | 125 |
| Sheets—hot rolled | 2,395,926 | 432,226 | 2,283 | 27,418 | 157,353 | 14,140 | 201,194 |
| Sheets—cold rolled | 2,692,824 | 143,307 | 20,925 | 38,133 | 148,100 | 71,903 | 279,109 |
| Sheets—galvanized | 2,321,108 | 233,169 | 90,898 | 16,056 | 11,710 | 22,818 | 142,444 |
| All other metallic coated | 209,730 | 4,062 | 63 | | 1,264 | | 1,327 |
| Electric sheets & strip | 81,703 | 12,638 | | | 591 | | 591 |
| Strip—hot rolled | 43,557 | 13,130 | 1,491 | | 2,172 | 1,367 | 5,445 |
| Strip—cold rolled | 159,135 | 44,614 | 2,324 | | 9,090 | 85 | 11,499 |
| **Total steel mill products** | **20,692,316** | **3,203,059** | **431,394** | **141,469** | **1,098,164** | **170,259** | **1,962,877** |
| Carbon | 19,542,052 | 2,995,471 | 399,778 | 140,212 | 1,058,882 | 165,457 | 1,885,083 |
| Alloy | 855,078 | 188,627 | 19,982 | 1,257 | 34,498 | 4,672 | 61,200 |
| Stainless | 295,186 | 18,960 | 11,634 | | 4,783 | 130 | 16,595 |

Country total may not add to regional total because of omissions of some countries

# Table 22 *(continued)*

## *Imports of Iron and Steel Products by Countries of Origin—1986*

**(Net tons)**

| Products | Europe | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | European Economic Community | | | | | | | | | | | | | |
| | United Kingdom | Netherlands | Belgium-Luxembourg | France | Fed Rep Germany | Italy | Greece | Spain | Total E.E.C.* | Sweden | Finland | Austria | Romania | Total Other Europe |
| **Steel Mill Products** | | | | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 216,394 | 72,054 | 74,665 | 123,674 | 265,194 | 12,261 | | 42,245 | **806,799** | 308,968 | 17,296 | 26 | | **326,365** |
| Wire rods | 51,263 | 12,220 | 27,162 | 120,568 | 24,358 | 13,647 | | 53,292 | **302,508** | 45,552 | 6,134 | 2,040 | | **104,882** |
| Structural shapes plain 3" & over | 149,462 | 921 | 315,742 | 61,634 | 127,087 | 414 | | 175,612 | **830,873** | 704 | | 480 | | **60,085** |
| Steel piling | 16,600 | | 27,201 | 21,285 | 20,527 | | | | **85,702** | | | | | **161** |
| Plates | 44,905 | 1,890 | 170,405 | 20,223 | 86,508 | 26,591 | 5,998 | 68,318 | **430,816** | 68,542 | 65,268 | 1,702 | 59,620 | **243,674** |
| Rails standard | 3,836 | | 7,095 | 13,296 | 34,837 | | | | **59,064** | 270 | | 60 | | **330** |
| Rails other | 146 | | 7,476 | 3,885 | 12,377 | 3 | | | **23,888** | 270 | | 1 | | **271** |
| Joint bars and tie plates | 188 | | 262 | | 141 | | | | **594** | 36 | | | | **36** |
| Track spikes | | | | | | | | | | | | | | |
| Wheels and axles | 4 | 6 | | 175 | 703 | 9 | 1 | 10 | **908** | 1 | 1 | 72 | | **76** |
| Bars—hot rolled | 58,845 | 762 | 26,202 | 10,741 | 22,399 | 3,728 | | 13,854 | **166,530** | 11,118 | 2 | 551 | | **12,339** |
| Bars shapes under 3 inches | 3,191 | 7 | 13,141 | 1,055 | 2,223 | 1,029 | | 4,434 | **25,096** | 1,856 | | 26 | | **1,882** |
| Concrete reinforcing bars | 2 | | 6 | 111 | | 5,505 | | | **5,624** | 9 | | | | **80,115** |
| Bars—cold finished | 26,470 | 99 | 1,218 | 40,449 | 6,213 | 4,869 | 64 | 17,939 | **97,328** | 1,017 | 2,822 | 516 | | **5,709** |
| Tool steel | 1,828 | | 66 | 708 | 10,815 | 1,654 | | 51 | **15,123** | 10,079 | | 1,070 | | **13,494** |
| Standard pipe | 1,215 | 13,614 | 16,339 | 12,604 | 30,413 | 17,232 | 2,679 | 2,457 | **97,204** | 7,128 | | | 5,934 | **26,283** |
| Oil country goods | 4,675 | 608 | 2,606 | 5,235 | 64,259 | 28,044 | 6,593 | 14,796 | **126,816** | 1,367 | 299 | 9,865 | 720 | **18,080** |
| Line pipe | 1,750 | 555 | 99,106 | 62,819 | 52,540 | 51,045 | 10,579 | 4,608 | **243,000** | 3,290 | 1,659 | 220 | 2,486 | **11,990** |
| Mechanical tubing | 6,518 | 319 | 2,142 | 4,493 | 16,563 | 4,543 | | 11,084 | **45,593** | 9,181 | | 613 | 88 | **16,805** |
| Pressure tubing | 1,586 | 7 | 351 | 296 | 2,405 | 3,700 | | 979 | **9,324** | 1,756 | | 74 | | **6,579** |
| Stainless pipe & tubing | 1,467 | 183 | 29 | 1,211 | 1,570 | 1,781 | | 175 | **6,215** | 7,675 | 6 | 490 | | **8,218** |
| Pipe & tubing nonclassified | 981 | 986 | 240 | 2 | 4,754 | 4,558 | | 167 | **11,681** | 249 | | 2 | | **258** |
| Structural pipe & tube, square & rectangular | 1,471 | 34 | 4,576 | 6,292 | 21,665 | 8,754 | 1,422 | 6,453 | **50,657** | 259 | 444 | | 9,447 | **31,700** |
| Wire drawn | 25,045 | 2,671 | 74,321 | 51,869 | 25,411 | 7,748 | 11 | 344 | **187,625** | 11,079 | 1,241 | 1,965 | | **18,277** |
| Wire nails | 1,084 | 549 | 1,640 | 1,515 | 930 | 392 | | 13,603 | **19,784** | 63 | | 3,070 | 3,210 | **50,526** |
| Barbed wire | | | 1,970 | 155 | 9 | | | 64 | **2,198** | | | | | **1,528** |
| Galvanized wire fencing | 6 | 20 | 559 | 6 | 102 | | | 23 | **717** | | | | | |
| Bale ties & baling wire | | 38 | 2 | | 30 | | | | **71** | | | | | |
| Black plate | 359 | 9,902 | 13,235 | 5,175 | 6,054 | | 22,441 | | **57,167** | | | | | **57** |
| Tin plate | 282 | 9,351 | 2,402 | 22,820 | 36,380 | | | 5,037 | **77,049** | | | | | **15,541** |
| Tin free steel | 76 | 395 | 1,706 | 5,223 | 24,119 | | | | **31,519** | | | | | |
| Sheets—hot rolled | 9,385 | 188,894 | 42,033 | 333,899 | 373,884 | 102,320 | | 5,183 | **1,055,594** | 15,066 | 53,172 | 30,326 | | **113,876** |
| Sheets—cold rolled | 26,729 | 168,606 | 82,998 | 159,837 | 432,759 | 99,446 | 52,954 | 80,167 | **1,101,586** | 10,498 | 22,175 | 68,315 | | **154,645** |
| Sheets—galvanized | 1,952 | 15,268 | 23,526 | 76,831 | 254,573 | 46,200 | 1,046 | 75,758 | **525,103** | 9,217 | 18,395 | 6,284 | 6,111 | **71,519** |
| All other metallic coated | 1,289 | | 2,765 | 14,712 | 9,569 | 21 | | 5,865 | **35,852** | 2,582 | 7,358 | 3,159 | | **18,238** |
| Electric sheets & strip | 2,180 | | 458 | 153 | 12,927 | 10,436 | | | **26,154** | 8,380 | | 14 | | **8,495** |
| Strip—hot rolled | 148 | | 410 | | 1,211 | 43 | 1,099 | | **2,907** | 4,243 | | | | **4,243** |
| Strip—cold rolled | 5,543 | 129 | 929 | 3,661 | 26,667 | 621 | 2,315 | 9,202 | **49,083** | 7,538 | 4,013 | 127 | | **11,850** |
| **Total steel mill products** | **702,957** | **498,080** | **985,372** | **1,205,506** | **2,011,542** | **456,491** | **107,202** | **611,708** | **6,613,750** | **548,065** | **199,285** | **132,096** | **87,616** | **1,438,126** |
| Carbon | 623,147 | 467,175 | 957,785 | 1,115,940 | 1,804,079 | 405,556 | 107,203 | 581,953 | **6,207,425** | 451,379 | 185,824 | 126,164 | 87,517 | **1,320,832** |
| Alloy | 67,312 | 10,671 | 11,913 | 54,360 | 96,110 | 31,902 | | 11,982 | **284,423** | 63,180 | 3,144 | 5,223 | 99 | **72,534** |
| Stainless | 12,498 | 235 | 15,674 | 35,206 | 21,353 | 19,033 | | 17,773 | **121,902** | 33,507 | 10,318 | 708 | | **44,760** |

*Includes totals for Ireland, Denmark & Portugal

# Table 22 *(continued)*

## *Imports of Iron and Steel Products by Countries of Origin—1986*

**(Net tons)**

| Products | Asia | | | | | Oceania | | Africa | |
|---|---|---|---|---|---|---|---|---|---|
| | People's Republic of China | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Republic of South Africa | Total Africa |
| **Steel Mill Products** | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | | 31,462 | 117 | 158,353 | **189,932** | 12,332 | 12,332 | 61,901 | **61,901** |
| Wire rods | | 956 | 40,441 | 268,142 | **387,595** | 10,953 | 11,513 | 14,971 | **14,971** |
| Structural shapes-plain 3" & over | | 58,389 | 10,771 | 403,911 | **473,084** | 283 | 283 | 83,713 | **83,713** |
| Steel piling | | | | | ... | | | | ... |
| Plates | | 59,604 | 3,613 | 29,672 | **110,497** | 2,057 | 2,057 | 63,238 | **63,260** |
| Rails standard | | 2,541 | | 60,079 | **62,620** | | | | ... |
| Rails other | | 5,034 | | 10,424 | **15,463** | | | 137 | **137** |
| Joint bars and tie plates | | 496 | 16 | 18,158 | **18,680** | | | | ... |
| Track spikes | | 26 | | | **26** | 269 | 269 | | ... |
| Wheels and axles | 683 | 4 | 349 | 5,039 | **6,171** | | | 250 | **250** |
| Bars—hot rolled | 853 | 9,223 | 18,466 | 73,165 | **110,450** | | | | ... |
| Bars shapes under 3 inches | 22 | 10,703 | 35,918 | 29,501 | **76,346** | 174 | 174 | 585 | **585** |
| Concrete reinforcing bars | | 61,756 | 116,705 | 7,975 | **226,736** | | | 10,134 | **10,134** |
| Bars—cold finished | 836 | 4,491 | 2,360 | 50,719 | **58,528** | | | 2,418 | **2,445** |
| Tool steel | | 1,286 | 22 | 6,429 | **7,736** | 14 | 15 | | ... |
| Standard pipe | 251 | 238,990 | 74,224 | 63,560 | **433,451** | 2,589 | 2,798 | 20,987 | **21,015** |
| Oil country goods | | 68,526 | 19,480 | 241,631 | **340,782** | | | 4,425 | **5,160** |
| Line pipe | | 92,347 | 3,454 | 236,958 | **349,160** | 1 | 1 | 1,531 | **1,531** |
| Mechanical tubing | | 19,247 | 10,338 | 62,224 | **99,114** | 435 | 435 | 4,260 | **4,281** |
| Pressure tubing | | 585 | 22 | 4,074 | **4,698** | | | 614 | **614** |
| Stainless pipe & tubing | | 773 | 3,358 | 12,232 | **16,365** | | 1 | | **3** |
| Pipe & tubing nonclassified | | 105 | 1,552 | 2,665 | **4,377** | | | 28 | **28** |
| Structural pipe & tube, square & rectangular | 545 | 34,884 | 37,347 | 57,130 | **176,841** | 10,044 | 10,044 | 13,096 | **13,686** |
| Wire drawn | 4,409 | 12,116 | 4,473 | 112,138 | **135,196** | 4,561 | 5,475 | 11,973 | **11,992** |
| Wire nails | 20,975 | 115,859 | 33,677 | 28,084 | **208,238** | 53 | 385 | 1 | **568** |
| Barbed wire | 693 | 3,780 | 1 | 96 | **4,660** | | 97 | 1,019 | **1,194** |
| Galvanized wire fencing | | | 448 | | **448** | | 311 | | ... |
| Bale ties & baling wire | 296 | 20 | 79 | 44 | **483** | | | 19 | **19** |
| Black plate | | 1,061 | 7 | 139,295 | **140,363** | | | | ... |
| Tin plate | | 7,632 | | 183,479 | **191,111** | 9,103 | 9,103 | | ... |
| Tin free steel | | 1,678 | | 70,796 | **72,474** | | | | ... |
| Sheets—hot rolled | 12 | 211,234 | 2,463 | 303,092 | **521,288** | 393 | 393 | 70,753 | **71,356** |
| Sheets—cold rolled | | 301,352 | 52,285 | 573,238 | **927,078** | 15,074 | 15,417 | 71,683 | **71,683** |
| Sheets—galvanized | | 150,706 | 1,142 | 1,020,641 | **1,172,595** | 90,876 | 103,701 | 61,853 | **72,577** |
| All other metallic coated | | 8,711 | 232 | 110,217 | **119,206** | 30,469 | 31,045 | | ... |
| Electric sheets & strip | | 1,378 | | 32,446 | **33,825** | | | | ... |
| Strip—hot rolled | 22 | 6,688 | 2,242 | 8,826 | **17,779** | 52 | 52 | | ... |
| Strip—cold rolled | | 1,663 | 33 | 37,815 | **39,569** | 2,405 | 2,521 | | ... |
| **Total steel mill products** | **29,592** | **1,525,305** | **475,835** | **4,422,244** | **6,752,967** | **192,135** | **208,423** | **499,590** | **513,113** |
| Carbon | 29,592 | 1,506,544 | 464,414 | 4,116,073 | **6,416,226** | 190,309 | 206,594 | 496,899 | **510,419** |
| Alloy | | 4,384 | 2,695 | 239,209 | **246,449** | 1,825 | 1,826 | 17 | **17** |
| Stainless | 6 | 14,377 | 8,725 | 66,963 | **90,290** | 1 | 2 | 2,674 | **2,677** |

# Table 22A

*Imports of Iron and Steel Products by Countries of Origin—1986*

(Net tons)

| Products | Grand Total | Canada | Mexico | Latin America: Venezuela | Latin America: Brazil | Latin America: Argentina | Latin America: Total Latin America |
|---|---|---|---|---|---|---|---|
| **Other Steel Products:** | | | | | | | |
| Structural shapes: fabricated | 424,966 | 157,001 | 1,375 | 34 | 2,922 | 123 | 4,477 |
| Shapes—cold formed | 2,178 | 1,753 | ... | ... | ... | ... | ... |
| Sashes and frames | 4,394 | 2,999 | 109 | ... | ... | ... | 109 |
| Fence or sign posts | 4,930 | 38 | 4,136 | 63 | 127 | ... | 4,326 |
| Wire—nonmetallic covered | 1,451 | 78 | 22 | ... | ... | ... | 22 |
| Wire rope | 129,449 | 3,626 | 1,632 | 39 | 749 | ... | 2,420 |
| Wire strand | 177,225 | 6,425 | 183 | ... | 2,633 | 6,168 | 9,122 |
| Welded wire fabric | 51,699 | 18,934 | 5,003 | 13,297 | 63 | 2 | 18,560 |
| Other nails and staples | 45,437 | 2,109 | 409 | ... | 1 | ... | 1,897 |
| Bale ties—strip | 615 | ... | ... | ... | ... | ... | ... |
| Bolts, nuts and rivets | 638,325 | 69,396 | 1,983 | ... | 2,149 | 86 | 4,292 |
| Grinding balls | 4,134 | 2,281 | 22 | ... | 274 | 167 | 511 |
| Blanks, nonrectangular flat rolled | 47,822 | 1,931 | 651 | ... | 25,032 | 1,258 | 26,940 |
| Conduit | 22,871 | 156 | 284 | ... | ... | ... | 441 |
| Pipe and tube fittings | 106,848 | 3,265 | 653 | 1,046 | 7,732 | 29 | 10,071 |
| **Total other steel products** | 1,662,344 | 269,992 | 16,463 | 14,477 | 41,680 | 7,834 | 83,189 |
| **Total steel products** | 22,354,660 | 3,473,051 | 447,857 | 155,946 | 1,139,844 | 178,093 | 2,046,066 |
| **Iron products & ferroalloys:** | | | | | | | |
| Bar iron, iron slabs & blooms etc | 127 | ... | ... | ... | ... | ... | ... |
| Cast iron soil pipe and fittings | 5,297 | 874 | 20 | 2,767 | ... | ... | 2,787 |
| Other cast iron pipe and fittings | 16,634 | 668 | 204 | 58 | 1,003 | 3 | 1,269 |
| Malleable cast iron pipe fittings | 20,965 | 135 | 435 | 337 | 874 | ... | 1,645 |
| Castings and forgings | 200,631 | 29,530 | 10,135 | ... | 13,983 | 6 | 24,132 |
| Pig iron | 294,967 | 112,607 | 19 | ... | 143,154 | ... | 143,173 |
| Sponge iron | 97,585 | 45,579 | ... | 39,407 | 184 | ... | 39,591 |
| Ferromanganese (manganese content) | 388,093 | 52,036 | 28,083 | ... | 12,456 | ... | 40,539 |
| Ferrosilicon (silicon content) | 218,576 | 38,663 | 1,659 | 39,043 | 49,872 | 300 | 91,755 |
| Ferrochromium (chromium content) | 387,867 | 107 | ... | ... | 8,047 | ... | 8,047 |
| Other ferroalloys | 252,399 | 2,170 | 19,342 | ... | 22,690 | ... | 63,543 |
| **Total Iron Products & Ferroalloys** | 1,883,140 | 282,368 | 59,896 | 81,611 | 252,262 | 309 | 416,480 |
| **Grand Total** | 24,237,800 | 3,755,419 | 507,753 | 237,557 | 1,392,106 | 178,402 | 2,462,546 |
| Iron and steel scrap | 723,560 | 562,603 | 69,930 | 641 | 9,302 | ... | 81,134 |

Country total may not add to regional total because of omissions of some countries

# Table 22A *(continued)*

## *Imports of Iron and Steel Products by Countries of Origin—1986*

**(Net tons)**

| Products | Europe | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | European Economic Community | | | | | | | | | | | | |
| | United Kingdom | Nether-lands | Belgium-Luxembourg | France | Fed Rep Germany | Italy | Greece | Spain | Total E.E.C.* | Sweden | Finland | Austria | Romania | Total Other Europe |
| **Other Steel Products:** | | | | | | | | | | | | | | |
| Structural shapes: fabricated | 5,306 | 217 | 1,450 | 543 | 3,326 | 2,774 | 304 | 1,221 | 16,126 | 1,657 | 985 | 158 | ... | 3,060 |
| Shapes—cold formed | ... | 1 | ... | 32 | 212 | ... | ... | ... | 245 | 166 | ... | 9 | ... | 175 |
| Sashes and frames | 48 | 164 | 32 | 42 | 231 | 147 | ... | 3 | 1,006 | 48 | ... | ... | ... | 56 |
| Fence or sign posts | 1 | 2 | 8 | 108 | ... | 87 | ... | ... | 241 | ... | ... | ... | ... | ... |
| Wire—nonmetallic covered | 47 | 1 | 14 | 1 | 32 | 6 | ... | ... | 135 | 2 | 2 | ... | ... | 130 |
| Wire rope | 1,489 | 1,246 | 13,727 | 13,707 | 3,175 | 4,494 | ... | 2,462 | 40,660 | 61 | ... | 211 | ... | 2,036 |
| Wire strand | 1,811 | 5,749 | 16,297 | 7,280 | 4,714 | 20,663 | ... | 22,221 | 78,776 | 3 | ... | 674 | ... | 703 |
| Welded wire fabric | 2,201 | 734 | 1,005 | 61 | 2,891 | 2 | ... | 851 | 8,701 | 624 | ... | ... | ... | 697 |
| Other nails and staples | 536 | 206 | 287 | 2,373 | 6,621 | 1,208 | ... | 1,154 | 12,387 | 2,555 | 20 | 1,059 | ... | 3,711 |
| Bale ties—strip | ... | ... | ... | ... | 566 | ... | ... | ... | 566 | ... | ... | ... | ... | ... |
| Bolts, nuts and rivets | 1,449 | 2,932 | 298 | 625 | 6,339 | 12,001 | ... | 1,370 | 25,248 | 942 | 4 | 255 | ... | 10,944 |
| Grinding balls | 9 | ... | 19 | ... | 142 | 318 | ... | 101 | 590 | 1 | ... | ... | ... | 1 |
| Blanks, nonrectangular, flat rolled | 49 | 619 | 52 | 68 | 1,606 | 6 | ... | 5,961 | 8,362 | 32 | ... | 31 | ... | 63 |
| Conduit | 15 | 1 | 181 | 1,219 | 115 | ... | ... | 11 | 1,541 | 1 | ... | ... | ... | 104 |
| Pipe and tube fittings | 869 | 404 | 159 | 2,606 | 5,128 | 5,762 | ... | 524 | 15,589 | 40 | ... | 355 | 5,468 | 6,182 |
| **Total other steel products** | **13,830** | **12,275** | **33,530** | **28,665** | **35,100** | **47,469** | **304** | **35,880** | **210,173** | **6,131** | **1,011** | **2,751** | **5,468** | **27,862** |
| **Total steel products** | **716,787** | **510,355** | **1,018,902** | **1,234,171** | **2,046,642** | **503,960** | **107,506** | **647,588** | **6,823,923** | **554,196** | **200,296** | **134,847** | **93,084** | **1,465,988** |
| **Iron products & ferroalloys:** | | | | | | | | | | | | | | |
| Bar iron, iron slabs & blooms etc. | 21 | ... | ... | ... | ... | 3 | ... | ... | 24 | ... | ... | ... | ... | 28 |
| Cast iron soil pipe and fittings | ... | ... | ... | ... | 103 | ... | ... | ... | 103 | ... | ... | ... | ... | ... |
| Other cast iron pipe and fittings | 130 | ... | 20 | 3 | 18 | 77 | ... | 204 | 454 | 23 | ... | 5 | ... | 59 |
| Malleable cast iron pipe fittings | 239 | 2 | ... | 170 | 36 | 3 | ... | ... | 549 | ... | 1 | ... | ... | 1 |
| Castings and forgings | 3,086 | 339 | 334 | 2,275 | 5,202 | 25,041 | 15 | 2,824 | 41,680 | 2 | 1 | 3 | 704 | 1,551 |
| Pig iron | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 47 |
| Sponge iron | 245 | ... | 12 | 1 | 1,616 | 166 | ... | ... | 2,040 | 2,414 | ... | ... | ... | 2,415 |
| Ferromanganese (manganese content) | ... | ... | 4,952 | 86,729 | 25,775 | ... | ... | 9,164 | 126,620 | ... | ... | ... | ... | 7,100 |
| Ferrosilicon (silicon content) | 30 | 20 | ... | 7,615 | 2,933 | 558 | ... | 1,230 | 13,421 | ... | ... | ... | ... | 68,920 |
| Ferrochromium (chromium content) | 6 | ... | ... | ... | 7,157 | 454 | 4,409 | ... | 12,045 | 4,780 | 14,386 | ... | ... | 92,640 |
| Other ferroalloys | 356 | 41 | 39 | 540 | 168 | 806 | ... | 2,705 | 14,401 | 20 | ... | 429 | ... | 39,613 |
| **Total Iron Products & Ferroalloys** | **4,712** | **401** | **5,358** | **97,332** | **43,008** | **27,108** | **4,424** | **16,127** | **211,336** | **7,240** | **14,387** | **437** | **704** | **212,374** |
| **Grand Total** | **721,499** | **510,756** | **1,024,260** | **1,331,503** | **2,089,650** | **531,068** | **111,930** | **663,715** | **7,035,259** | **561,436** | **214,683** | **135,284** | **93,788** | **1,678,362** |
| Iron and steel scrap | 22,462 | 816 | 128 | 291 | 2,365 | 17,114 | ... | ... | 43,176 | 12 | ... | 58 | ... | 84 |

*Includes totals for Ireland, Denmark & Portugal.

# Table 22A *(continued)*

## *Imports of Iron and Steel Products by Countries of Origin—1986*

**(Net tons)**

| Products | Asia | | | | | Oceania | | Africa | |
|---|---|---|---|---|---|---|---|---|---|
| | People's Republic of China | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Republic of South Africa | Total Africa |
| **Other Steel Products:** | | | | | | | | | |
| Structural shapes, fabricated | 44 | 33,721 | 19,929 | 165,699 | **233,977** | 106 | 8,175 | 2,126 | **2,149** |
| Shapes—cold formed | ... | ... | ... | 4 | **5** | ... | ... | ... | ... |
| Sashes and frames | ... | 52 | 116 | 17 | **223** | ... | ... | ... | ... |
| Fence or sign posts | ... | 53 | 216 | ... | **306** | ... | 19 | ... | ... |
| Wire—nonmetallic covered | ... | 402 | 365 | 39 | **1,074** | 2 | 3 | ... | **8** |
| Wire rope | 10 | 51,375 | 3,308 | 23,141 | **80,050** | ... | ... | 554 | **658** |
| Wire strand | 56 | 28,035 | 271 | 41,161 | **69,858** | ... | ... | 12,337 | **12,340** |
| Welded wire fabric | 1,869 | 540 | 556 | 1,769 | **4,794** | ... | 13 | ... | ... |
| Other nails and staples | 1,809 | 17,356 | 1,554 | 4,239 | **25,107** | 144 | 145 | ... | **82** |
| Bale ties—strip | ... | ... | 1 | 48 | **49** | ... | ... | ... | ... |
| Bolts, nuts and rivets | 21,243 | 44,677 | 214,583 | 238,299 | **524,140** | 767 | 779 | 3,389 | **3,525** |
| Grinding balls | ... | 45 | 48 | 653 | **747** | ... | ... | 5 | **5** |
| Blanks, nonrectangular flat rolled | ... | 905 | 8 | 1,358 | **3,458** | ... | ... | 3,927 | **7,069** |
| Conduit | ... | 20,140 | 343 | 65 | **20,628** | ... | ... | ... | ... |
| Pipe and tube fittings | 1,846 | 21,457 | 18,755 | 26,296 | **70,260** | 582 | 582 | 841 | **899** |
| **Total other steel products** | **26,878** | **218,758** | **260,051** | **502,789** | **1,034,674** | **1,603** | **9,719** | **23,179** | **26,735** |
| **Total steel products** | **56,470** | **1,744,063** | **735,886** | **4,925,033** | **7,787,641** | **193,738** | **218,142** | **522,769** | **539,848** |
| **Iron products & ferroalloys:** | | | | | | | | | |
| Bar iron, iron slabs & blooms etc | ... | ... | ... | 6 | **6** | 69 | 69 | ... | ... |
| Cast iron soil pipe and fittings | ... | 690 | 124 | 51 | **1,534** | ... | ... | ... | ... |
| Other cast iron pipe and fittings | 3,043 | 3,477 | 5,444 | 119 | **14,148** | ... | ... | 18 | **37** |
| Malleable cast iron pipe fittings | 604 | 1,637 | 2,210 | 7,096 | **18,635** | ... | ... | ... | ... |
| Castings and forgings | 15,699 | 4,287 | 15,082 | 8,058 | **102,078** | 28 | 480 | 446 | **1,180** |
| Pig iron | 6,041 | 110 | 3 | ... | **6,196** | ... | ... | 32,944 | **32,944** |
| Sponge iron | ... | ... | 299 | 7,658 | **7,960** | ... | ... | ... | ... |
| Ferromanganese (manganese content) | ... | ... | ... | 2,826 | **2,826** | 13,423 | 13,423 | 145,549 | **145,549** |
| Ferrosilicon (silicon content) | ... | ... | ... | 109 | **109** | ... | ... | 5,707 | **5,707** |
| Ferrochromium (chromium content) | 1,102 | ... | ... | 334 | **1,436** | ... | ... | 230,225 | **273,593** |
| Other ferroalloys | 170 | ... | 4 | 2,107 | **3,791** | 14,003 | 31,550 | 92,177 | **97,332** |
| **Total Iron Products & Ferroalloys** | **26,659** | **10,200** | **23,167** | **28,365** | **158,719** | **27,524** | **45,522** | **507,066** | **556,342** |
| **Grand Total** | **83,129** | **1,754,263** | **759,053** | **4,953,398** | **7,946,360** | **221,262** | **263,664** | **1,029,835** | **1,096,190** |
| Iron and steel scrap | ... | 92 | 8 | 12,985 | **13,118** | 23,135 | 23,158 | ... | **287** |

# Table 23

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net tons)**

| Products | Grand Total | ATLANTIC COAST | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Boston | Providnce Brdgport | New York City | Phila. | Baltimore/ Wash., DC | Norfolk | Wil- mington | Charles- ton | Savannah | Tampa | Miami | Total |
| **Steel Mill Products** | | | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | **2,084,096** | 31 | 889 | 162,386 | 108,996 | 5,670 | 131,552 | 125 | 15,024 | 3,829 | 12 | — | **428,514** |
| Wire rods | **1,357,875** | 453 | 46,639 | 16,597 | 59,101 | 33,483 | 588 | 5,548 | 8,901 | 48,421 | 57,425 | 5,070 | **282,226** |
| Structural shapes-plain 3" & over | **1,748,604** | 72 | 186,101 | 30,832 | 29,644 | 43,753 | 60 | 55,321 | 509 | 66,566 | 46,106 | 4,761 | **463,725** |
| Steel piling | **107,013** | — | 18,957 | 1,489 | 2,484 | 1,885 | — | — | — | 3,743 | 3,481 | 1,758 | **33,797** |
| Plates | **1,106,904** | 112 | 90,307 | 3,516 | 40,992 | 9,255 | 1,502 | 15,851 | 1,848 | 34,306 | 25,216 | 7,443 | **230,348** |
| Rails standard | **192,153** | — | 2,059 | 1 | 250 | 3,338 | 92 | — | 4 | 232 | 24 | 1 | **6,001** |
| Rails other | **52,583** | — | 112 | 88 | 4,191 | 100 | — | 204 | — | 330 | 125 | — | **5,150** |
| Joint bars and tie plates | **21,025** | — | — | — | 410 | 1,749 | 3 | — | — | — | — | — | **2,162** |
| Track spikes | **323** | — | — | — | 288 | — | — | — | — | — | — | — | **288** |
| Wheels and axles | **9,626** | 21 | 33 | 856 | 2,519 | 862 | 74 | 3 | 82 | 267 | — | 1 | **4,718** |
| Bars—Hot rolled | **582,580** | 341 | 12,464 | 4,030 | 12,428 | 12,931 | 1,014 | 2,470 | 1,441 | 8,842 | 3,332 | 4,961 | **64,254** |
| Bars shapes under 3 inches | **166,369** | 210 | 9,573 | 1,769 | 9,681 | 3,702 | 21 | 856 | 445 | 4,027 | 2,148 | 129 | **32,561** |
| Concrete reinforcing bars | **454,735** | — | 25,867 | 1 | 13,599 | 2,839 | — | 661 | 3,071 | 760 | 2,134 | 78,483 | **127,415** |
| Bars—Cold finished | **224,696** | 922 | 6,925 | 11,952 | 13,146 | 8,414 | 5,110 | 6,148 | 1,103 | 2,113 | 1,603 | 1,970 | **59,406** |
| Tool steel | **44,749** | 3,266 | 5,442 | 4,982 | 1,827 | 6,057 | 2,837 | 329 | 1,137 | 357 | 2 | 117 | **26,353** |
| Standard pipe | **697,034** | 572 | 46,142 | 3,907 | 69,694 | 31,330 | 2,164 | 20,676 | 6,945 | 32,123 | 25,239 | 4,537 | **243,329** |
| Oil country goods | **616,743** | — | 5,230 | 700 | 18,534 | 2,132 | 1,031 | 809 | 445 | 4,181 | 8,045 | — | **41,107** |
| Line pipe | **817,861** | — | 3,783 | 1,179 | 13,079 | 508 | 87 | 100 | 849 | 2,805 | 32,692 | — | **55,082** |
| Mechanical tubing | **237,247** | 81 | 3,127 | 4,141 | 11,781 | 11,193 | 1,354 | 982 | 2,833 | 4,435 | 1,899 | 580 | **42,406** |
| Pressure tubing | **23,981** | 1 | 4,742 | 492 | 2,761 | 117 | 35 | — | 65 | 894 | 190 | 950 | **10,247** |
| Stainless pipe & tubing | **35,653** | 67 | 117 | 5,733 | 4,301 | 506 | 61 | 130 | 464 | 675 | 360 | — | **12,414** |
| Pipe & tubing nonclassified | **28,524** | 2 | 70 | 160 | 1,812 | 158 | — | 1,140 | 11 | 110 | 486 | 121 | **4,070** |
| Structural pipe & tube, sq. & rect | **479,768** | 106 | 24,636 | 818 | 12,545 | 5,166 | 505 | 7,369 | 2,876 | 17,804 | 12,210 | 2,700 | **86,735** |
| Wire drawn | **594,433** | 5,115 | 1,234 | 45,041 | 8,237 | 28,114 | 10,503 | 7,313 | 21,895 | 6,192 | 6,396 | 13,110 | **153,150** |
| Wire nails | **393,231** | 11,857 | 13,935 | 24,458 | 24,286 | 8,854 | 1,898 | 17,022 | 7,962 | 13,723 | 9,433 | 11,402 | **144,830** |
| Barbed wire | **22,157** | 2 | 190 | 149 | 415 | 965 | 265 | 625 | 386 | 554 | 1,098 | 254 | **4,903** |
| Galvanized wire fencing | **11,509** | 106 | 12 | 136 | 21 | 53 | 41 | — | 106 | — | 265 | 56 | **796** |
| Bale ties & baling wire | **696** | — | — | 247 | 44 | — | 16 | 3 | — | 20 | — | 53 | **383** |
| Black plate | **205,937** | — | 30,626 | 10,080 | 38,993 | 7,014 | 1,640 | 223 | — | 17,768 | 1,454 | — | **107,798** |
| Tin plate | **359,658** | — | 12,922 | 353 | 15,856 | 12,075 | — | — | 1,458 | 6,510 | 7,497 | — | **56,671** |
| Tin free steel | **110,569** | — | 1,324 | 258 | 5,680 | 2,426 | — | — | 3 | 12 | 428 | — | **10,131** |
| Sheets—Hot rolled | **2,395,926** | 196 | 147,830 | 3,139 | 168,886 | 11,381 | 175 | 47,673 | 1,888 | 22,447 | 28,299 | 9,421 | **441,335** |
| —Cold rolled | **2,692,824** | 3,734 | 240,109 | 72,276 | 268,849 | 43,266 | 34,034 | 49,467 | 20,704 | 64,793 | 8,242 | 15,791 | **821,265** |
| Sheets galvanized | **2,321,108** | 794 | 74,533 | 12,801 | 220,850 | 27,139 | 65,660 | 17,910 | 39,355 | 62,052 | 71,437 | 37,683 | **630,214** |
| All other metallic coated | **209,730** | 109 | 496 | 10,582 | 23,884 | 75 | 87 | 1,086 | 699 | 2,726 | 3,424 | 1,407 | **44,575** |
| Electric sheets & strip | **81,703** | — | 15,206 | 27 | 6,723 | 441 | 48 | 224 | — | 11,539 | 323 | — | **34,531** |
| Strip—Hot rolled | **43,557** | 22 | 2,972 | 341 | 389 | 215 | — | 132 | 31 | 441 | 4,388 | 129 | **9,060** |
| —Cold rolled | **159,135** | 2,138 | 17,291 | 17,293 | 4,140 | 3,341 | 206 | 588 | 5,744 | 3,497 | 604 | 1,441 | **56,283** |
| **Total Steel Mill Products** | **20,692,316** | 30,328 | 1,051,897 | 452,910 | 1,221,318 | 330,508 | 262,664 | 260,986 | 148,284 | 449,092 | 366,015 | 204,328 | **4,778,233** |
| Carbon | **19,542,052** | 19,961 | 1,000,940 | 381,772 | 1,139,935 | 261,477 | 253,282 | 251,521 | 132,013 | 412,371 | 358,398 | 203,337 | **4,415,007** |
| Alloy | **855,078** | 5,280 | 40,936 | 30,364 | 37,762 | 48,378 | 7,817 | 8,113 | 12,223 | 27,961 | 7,005 | 145 | **225,984** |
| Stainless | **295,186** | 5,087 | 10,019 | 40,674 | 43,621 | 20,653 | 1,565 | 1,352 | 4,048 | 8,760 | 613 | 846 | **137,238** |

# Table 23 *(continued)*

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net tons)**

| Products | GULF COAST-MEXICAN BORDER | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Mobile | New Orleans | Port Arthur | Houston | Dallas | Laredo | El Paso Nogales | Total |
| **Steel Mill Products** | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 207,583 | 223,330 | 87,382 | 6,790 | — | 57,288 | 199 | 582,572 |
| Wire rods | 28,365 | 142,490 | — | 76,326 | 11,128 | 5,203 | — | 263,512 |
| Structural shapes-plain 3" & over | 47,695 | 114,500 | — | 201,540 | 745 | 10,930 | 33 | 375,443 |
| Steel piling | 188 | 6,970 | — | 15,914 | — | — | — | 23,072 |
| Plates | 21,304 | 110,457 | — | 171,959 | 1,372 | 12,817 | 997 | 318,906 |
| Rails standard | 44,092 | 2,696 | — | 6,869 | — | — | — | 53,657 |
| Rails other | 9,745 | 15,207 | — | 969 | — | — | — | 25,921 |
| Joint bars and tie plates | 5,440 | 6,936 | — | 219 | — | — | — | 12,595 |
| Track spikes | — | — | — | 11 | — | — | — | 11 |
| Wheels and axles | 117 | 464 | — | 59 | 10 | 116 | — | 766 |
| Bars—Hot rolled | 3,165 | 26,345 | 49 | 22,484 | 1,067 | 7,714 | 111 | 60,935 |
| Bars shapes under 3 inches | 349 | 5,910 | — | 7,566 | — | 507 | — | 14,332 |
| Concrete reinforcing bars | — | 8,518 | — | 26,925 | — | 5,301 | 22 | 40,766 |
| Bars—Cold finished | 1,676 | 4,607 | — | 16,990 | — | 3,256 | — | 26,529 |
| Tool steel | 556 | 420 | — | 1,095 | — | 359 | — | 2,430 |
| Standard pipe | 1,002 | 39,745 | — | 78,965 | 19 | 50,150 | 3 | 169,884 |
| Oil country goods | 257 | 43,269 | — | 333,756 | 633 | 6,633 | 10 | 384,558 |
| Line pipe | 27,051 | 134,936 | — | 322,488 | — | 31,097 | 238 | 515,810 |
| Mechanical tubing | 4 | 13,550 | — | 41,613 | 690 | 1,970 | — | 57,827 |
| Pressure tubing | — | 1,057 | — | 5,953 | 9 | 1 | — | 7,020 |
| Stainless pipe & tubing | 423 | 1,413 | — | 9,265 | 44 | 372 | — | 11,517 |
| Pipe & tubing nonclassified | — | 600 | — | 7,843 | 927 | 497 | — | 9,867 |
| Structural pipe & tube, sq. & rect. | 1,935 | 25,544 | — | 71,829 | 9,856 | 12,854 | — | 122,018 |
| Wire drawn | 1,061 | 46,325 | — | 18,051 | 182 | 2,940 | 1,100 | 69,659 |
| Wire nails | 22 | 21,083 | — | 26,960 | 261 | 3,285 | 31 | 51,642 |
| Barbed wire | 381 | 4,665 | — | 4,627 | — | 2,998 | 3 | 12,674 |
| Galvanized wire fencing | — | 20 | — | 74 | — | 4,538 | 43 | 4,675 |
| Bale ties & baling wire | — | 61 | — | — | — | — | — | 61 |
| Black plate | 2,358 | 17,590 | — | 2,961 | — | — | — | 22,909 |
| Tin plate | 8,122 | 30,171 | — | 7,910 | — | — | — | 46,203 |
| Tin free steel | 1,686 | 9,322 | — | 10,433 | — | — | — | 21,441 |
| Sheets—Hot rolled | 34,376 | 149,942 | — | 266,413 | 1,152 | 2,005 | — | 453,888 |
| —Cold rolled | 23,624 | 308,150 | — | 138,456 | — | 20,902 | 3,259 | 494,391 |
| Sheets galvanized | 11,559 | 269,854 | — | 245,460 | — | 80,567 | 4,045 | 611,485 |
| All other metallic coated | 2,235 | 53,856 | — | 10,423 | 3 | 63 | 107 | 66,687 |
| Electric sheets & strip | — | 12,034 | — | 450 | — | — | — | 12,484 |
| Strip—Hot rolled | 1,265 | 3,028 | — | 6,619 | — | 1,491 | — | 12,403 |
| —Cold rolled | 1,408 | 14,800 | — | 6,598 | 3 | 1,596 | 669 | 25,074 |
| **Total Steel Mill Products** | **489,046** | **1,869,862** | **87,432** | **2,172,862** | **28,102** | **327,454** | **10,873** | **4,985,624** |
| Carbon | 484,231 | 1,783,635 | 81,243 | 2,058,186 | 22,847 | 309,523 | 10,695 | **4,750,360** |
| Alloy | 2,608 | 76,262 | 6,189 | 90,731 | 5,209 | 6,297 | 178 | **187,474** |
| Stainless | 2,206 | 9,965 | | 23,946 | 46 | 11,634 | | **47,797** |

# Table 23 *(continued)*

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net Tons)**

| Products | PACIFIC COAST | | | | | | OFF SHORE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | San Diego | Los Angeles | San Francisco | Columbia-Snake | Seattle | Total | Virgin islands | Anchorage | Honolulu | San Juan | Total |
| **Steel Mill Products** | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 9,925 | 352,514 | 416 | 37,460 | 49,427 | **449,742** | — | — | 1,048 | — | **1,048** |
| Wire rods | — | 201,458 | 52,601 | 757 | 29,622 | **284,438** | — | — | — | 8,279 | **8,279** |
| Structural shapes-plain 3" & over | 6,057 | 263,487 | 106,507 | 45,331 | 17,387 | **438,768** | — | 1,866 | 1,725 | 12,720 | **16,311** |
| Steel piling | — | 788 | 3,904 | 2,098 | 4,237 | **11,027** | — | — | — | 227 | **227** |
| Plates | — | 90,262 | 30,914 | 35,139 | 21,041 | **167,356** | — | 455 | 752 | 4,944 | **6,151** |
| Rails standard | — | 9,366 | 4,377 | 44,103 | 3,419 | **61,265** | 1 | 640 | — | — | **641** |
| Rails other | — | 3,432 | 264 | 3,603 | 107 | **7,406** | — | — | — | — | — |
| Joint bars and tie plates | — | — | 25 | 4,451 | 50 | **4,526** | — | — | — | — | — |
| Track spikes | — | — | — | 2 | — | **2** | — | — | — | — | — |
| Wheels and axles | — | 131 | 516 | — | 1,966 | **2,613** | — | — | — | — | — |
| Bars—Hot rolled | 1,324 | 40,418 | 5,047 | 5,424 | 1,975 | **54,188** | 38 | 201 | 685 | 23,151 | **24,075** |
| Bars shapes under 3 inches | 929 | 38,552 | 6,837 | 3,442 | 1,770 | **51,530** | 3 | 17 | 280 | 1,948 | **2,248** |
| Concrete reinforcing bars | 663 | 56,475 | 23,859 | 1,197 | 4,201 | **86,395** | 2,132 | 1,543 | 4,220 | 165,354 | **173,249** |
| Bars—Cold finished | — | 29,252 | 3,830 | 6,464 | 2,880 | **42,426** | — | — | 59 | 1,074 | **1,133** |
| Tool steel | 17 | 2,283 | 79 | 288 | 301 | **2,968** | — | — | — | — | — |
| Standard pipe | 6 | 157,241 | 42,995 | 15,037 | 14,438 | **229,717** | 43 | 83 | 1,594 | 6,464 | **8,184** |
| Oil country goods | 3,792 | 33,324 | 481 | 4,538 | 6,369 | **48,504** | — | 67,105 | — | 336 | **67,441** |
| Line pipe | — | 107,158 | 7,503 | 43,694 | 16,788 | **175,143** | — | 12,002 | — | 971 | **12,973** |
| Mechanical tubing | — | 23,431 | 8,181 | 10,611 | 7,509 | **49,732** | — | 181 | 168 | 7,596 | **7,945** |
| Pressure tubing | 204 | 1,131 | 238 | — | 49 | **1,622** | — | — | — | 414 | **414** |
| Stainless pipe & tubing | — | 3,890 | 142 | 932 | 262 | **5,226** | — | 817 | — | 30 | **847** |
| Pipe & tubing nonclassified | — | 492 | 157 | 3 | 405 | **1,057** | — | 127 | 25 | 2,374 | **2,526** |
| Structural pipe & tube, sq. & rect | — | 78,568 | 19,342 | 12,379 | 10,610 | **120,899** | — | 440 | 564 | 4,088 | **5,082** |
| Wire drawn | 55 | 25,927 | 6,897 | 11,517 | 36,465 | **80,861** | — | — | 2,192 | 13,991 | **16,183** |
| Wire nails | 24 | 42,628 | 27,891 | 1,147 | 40,739 | **112,429** | — | — | 724 | 1,392 | **2,116** |
| Barbed wire | — | 816 | 912 | 541 | 218 | **2,487** | — | — | 120 | 1,918 | **2,038** |
| Galvanized wire fencing | 15 | 62 | — | — | 626 | **703** | 1 | — | 113 | 76 | **190** |
| Bale ties & baling wire | — | 40 | 96 | — | | **136** | — | — | — | 79 | **79** |
| Black plate | — | 21,679 | 5,157 | — | — | **26,836** | — | — | — | — | — |
| Tin plate | — | 21,441 | 109,210 | 11 | — | **130,662** | — | — | 4,981 | 18,419 | **23,400** |
| Tin free steel | — | 27,921 | 25,065 | — | — | **52,986** | — | — | — | 4,378 | **4,378** |
| Sheets—Hot rolled | — | 363,910 | 63,670 | 35,540 | 18,377 | **481,497** | — | 1,304 | 984 | 4,261 | **6,549** |
| —Cold rolled | — | 356,798 | 139,282 | 11,195 | 11,748 | **519,023** | — | — | — | 7,529 | **7,529** |
| Sheets galvanized | — | 205,262 | 54,174 | 56,583 | 45,626 | **361,645** | 221 | 737 | 2,901 | 39,192 | **43,051** |
| All other metallic coated | — | 28,911 | 12,114 | 2,585 | 5,584 | **49,194** | — | 44 | 801 | 7,190 | **8,035** |
| Electric sheets & strip | — | 4,717 | 1,076 | — | 32 | **5,825** | — | — | — | — | — |
| Strip—Hot rolled | — | 5,945 | 769 | 715 | 698 | **8,127** | — | — | 32 | 98 | **130** |
| —Cold rolled | 79 | 10,373 | 5,932 | 2,797 | 659 | **19,840** | — | — | 15 | 1,697 | **1,712** |
| **Total Steel Mill Products** | **23,090** | **2,600,082** | **770,461** | **399,584** | **355,584** | **4,148,801** | **2,439** | **87,562** | **23,974** | **340,192** | **454,164** |
| Carbon | 22,986 | 2,519,535 | 756,835 | 383,373 | 343,025 | **4,016,754** | 805 | 85,333 | 23,974 | 337,949 | **448,061** |
| Alloy | 104 | 54,171 | 8,237 | 13,516 | 7,700 | **83,728** | 1,635 | 1,413 | | 822 | **3,870** |
| Stainless | 1 | 35,376 | 5,389 | 2,695 | 4,858 | **48,319** | | 817 | | 1,421 | **2,238** |

# Table 23 *(continued)*

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net Tons)**

| Products | GREAT LAKES-CANADIAN BORDER | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Portland | St. Albans | Ogdensburg | Buffalo | Great Falls | Pembina | Duluth Mineapls | Milwaukee | Detroit | Chicago | Cleveland | St. Louis | Total |
| **Steel Mill Products** | | | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc | 5 | 2 | 337 | 40,385 | — | 23 | — | 1,274 | 253,112 | 122,981 | 204,099 | — | **622,218** |
| Wire rods | 25 | 4,980 | 85,644 | 133,014 | — | — | — | — | 212,090 | 27,236 | 53,203 | 3,229 | **519,421** |
| Structural shapes-plain 3" & over | 2,757 | 22,217 | 14,104 | 133,644 | 963 | 15,938 | 320 | 4,713 | 133,691 | 97,362 | 28,642 | 8 | **454,359** |
| Steel piling | — | 621 | 3,644 | 140 | — | — | 1,836 | — | 15,576 | 14,916 | 2,157 | — | **38,890** |
| Plates | 71 | 5,395 | 4,860 | 57,933 | 462 | 1,445 | 4,656 | 12,586 | 176,684 | 78,729 | 41,030 | 292 | **384,143** |
| Rails standard | 990 | 224 | 6,977 | 41,537 | — | 4,840 | 1,017 | — | 12,526 | 1,438 | 1,039 | — | **70,588** |
| Rails other | — | 5 | 8,598 | 3,232 | — | 1 | 155 | — | 1,300 | 574 | 243 | — | **14,108** |
| Joint bars and tie plates | 72 | 5 | — | 863 | — | 5 | — | — | 732 | 64 | 1 | — | **1,742** |
| Track spikes | 5 | — | 7 | 5 | — | — | — | — | — | — | — | 6 | **23** |
| Wheels and axles | 6 | 13 | 65 | 10 | — | 4 | 14 | 32 | 115 | 187 | 1,081 | — | **1,527** |
| Bars—Hot rolled | 42 | 6,518 | 9,648 | 53,334 | 2,399 | 19,370 | — | 67 | 201,552 | 27,682 | 55,631 | 2,880 | **379,123** |
| Bars shapes under 3 inches | 23 | 1,034 | 398 | 34,375 | 19 | 3 | 287 | — | 20,940 | 7,248 | 1,358 | — | **65,694** |
| Concrete reinforcing bars | 13 | 2,486 | 2,491 | 21,598 | 144 | — | — | — | 141 | 37 | — | — | **26,910** |
| Bars—Cold finished | — | 1,196 | 2,512 | 28,452 | 19 | 2 | 454 | 66 | 31,616 | 26,898 | 3,964 | 21 | **95,200** |
| Tool steel | — | 74 | 20 | 1,969 | — | 74 | 120 | 16 | 7,050 | 2,873 | 796 | 4 | **12,996** |
| Standard pipe | 33 | 5,716 | 12,995 | 6,698 | 140 | 707 | — | — | 8,443 | 6,963 | 4,209 | 15 | **45,919** |
| Oil country goods | 24 | 100 | 1,119 | 29,168 | 7,231 | 1,853 | 485 | 82 | 33,498 | 1,334 | 76 | 76 | **75,136** |
| Line pipe | 156 | 177 | 247 | 27,571 | 7,276 | 9,866 | 47 | — | 11,585 | 1,469 | 458 | — | **58,852** |
| Mechanical tubing | 273 | 2,702 | 7,089 | 22,726 | 403 | 316 | 24 | 837 | 33,032 | 10,916 | 987 | 33 | **79,338** |
| Pressure tubing | — | — | 134 | 185 | — | 1 | — | 36 | 2,159 | 1,599 | 565 | — | **4,679** |
| Stainless pipe & tubing | 18 | 348 | 2,253 | 716 | 92 | — | 7 | — | 1,207 | 968 | 40 | — | **5,649** |
| Pipe & tubing nonclassified | 3 | 9 | 101 | 694 | 278 | 420 | — | 7 | 9,041 | 283 | 169 | — | **11,005** |
| Structural pipe & tube, sq. & rect | 86 | 7,428 | 5,756 | 45,538 | 2,236 | 952 | 21 | 111 | 80,579 | 2,308 | 22 | — | **145,037** |
| Wire drawn | 4,033 | 28,512 | 42,747 | 64,440 | 74 | 27 | 1,131 | 1,517 | 73,767 | 47,586 | 9,036 | 1,709 | **274,579** |
| Wire nails | 4,266 | 11,113 | 19,156 | 12,016 | 27 | 120 | 742 | 100 | 19,110 | 14,987 | 540 | 39 | **82,216** |
| Barbed wire | — | — | 9 | 30 | — | — | — | — | 15 | — | — | — | **54** |
| Galvanized wire fencing | 2 | — | 3,341 | 519 | — | 11 | 251 | — | 960 | 19 | — | 40 | **5,143** |
| Bale ties & baling wire | — | 2 | — | 21 | — | — | — | — | 15 | — | — | — | **38** |
| Black plate | — | — | 82 | 4,386 | — | — | — | — | 11,455 | 14,457 | 18,015 | — | **48,395** |
| Tin plate | — | — | — | 30,327 | — | — | — | 92 | 23,816 | 37,296 | 11,190 | — | **102,721** |
| Tin free steel | — | — | — | 2,001 | — | — | — | — | 2,573 | 15,970 | 1,089 | — | **21,633** |
| Sheets—Hot rolled | 7 | 6,372 | 5,777 | 84,251 | 2,107 | 8,076 | 17,564 | 10,912 | 441,109 | 251,308 | 172,644 | 12,529 | **1,012,656** |
| —Cold rolled | — | 24,154 | 14,516 | 54,246 | — | 70 | 22,562 | 3,747 | 260,971 | 356,212 | 94,837 | 19,302 | **850,617** |
| Sheets galvanized | 39 | 442 | 601 | 66,494 | 125 | 8 | 6,793 | 359 | 433,900 | 104,609 | 56,794 | 4,545 | **674,709** |
| All other metallic coated | 10 | 484 | 3,634 | 334 | — | 1,442 | 991 | — | 14,265 | 12,649 | 7,430 | — | **41,239** |
| Electric sheets & strip | — | 3 | — | 3,030 | — | — | — | — | 9,626 | 13,281 | 2,683 | 238 | **28,861** |
| Strip—Hot rolled | — | 738 | 1,475 | 6,109 | — | — | — | — | 5,386 | 130 | — | — | **13,838** |
| —Cold rolled | — | 77 | 4,092 | 23,241 | 6 | — | 106 | 84 | 19,164 | 6,224 | 3,122 | 111 | **56,227** |
| **Total Steel Mill Products** | **12,958** | **133,239** | **264,427** | **1,035,230** | **24,003** | **65,576** | **59,585** | **36,636** | **2,562,812** | **1,308,791** | **777,151** | **45,078** | **6,325,483** |
| Carbon | 12,941 | 132,670 | 256,890 | 977,092 | 23,411 | 62,347 | 59,001 | 30,939 | 2,394,330 | 1,199,714 | 718,203 | 44,332 | **5,911,870** |
| Alloy | — | 150 | 1,510 | 47,180 | 465 | 3,228 | 387 | 5,473 | 161,405 | 77,401 | 56,295 | 527 | **354,021** |
| Stainless | 18 | 419 | 6,027 | 10,959 | 127 | 1 | 197 | 224 | 7,077 | 31,676 | 2,653 | 219 | **59,597** |

# Table 23A

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net tons)**

| Products | Grand Total | ATLANTIC COAST | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Boston | Providnce Brdgport | New York City | Phila. | Baltimore/ Wash., DC | Norfolk | Wil- mington | Charles- ton | Savannah | Tampa | Miami | Total |
| **Other Steel Products** | | | | | | | | | | | | | |
| Structural shapes, fabricated | 424,966 | 317 | 6,577 | 4,911 | 1,067 | 1,708 | 572 | 6,288 | 130 | 8,888 | 14,265 | 595 | 45,318 |
| Shapes—Cold formed | 2,178 | 150 | 22 | 19 | — | 10 | 1 | — | 60 | 12 | 125 | — | 399 |
| Sashes and frames | 4,394 | 2 | — | 357 | 13 | 68 | 6 | 48 | 227 | 67 | 22 | 120 | 930 |
| Fence or sign posts | 4,930 | 37 | — | 107 | — | 103 | — | — | — | — | — | — | 247 |
| Wire—Nonmetallic covered | 1,451 | 3 | 4 | 454 | 26 | 105 | 21 | 9 | 41 | 35 | 2 | — | 700 |
| Wire rope | 129,449 | 3,124 | 114 | 7,672 | 992 | 7,065 | 6,006 | 7,095 | 9,909 | 4,294 | 3,178 | 755 | 50,204 |
| Wire strand | 177,225 | 705 | — | 19,244 | 2,418 | 10,518 | 7,699 | 529 | 11,309 | 13,938 | 4,931 | 10,347 | 81,638 |
| Welded wire fabric | 51,699 | 42 | 20 | 3,153 | 133 | 235 | 116 | 623 | 980 | 1,780 | 834 | 9,670 | 17,586 |
| Other nails and staples | 45,437 | 960 | 221 | 3,152 | 542 | 797 | 406 | 4,382 | 1,665 | 2,862 | 4,051 | 524 | 19,562 |
| Bale ties—Strip | 615 | — | — | — | — | — | — | — | — | — | — | — | — |
| Bolts, nuts and rivets | 638,325 | 11,105 | 1,520 | 77,805 | 15,651 | 39,932 | 6,288 | 4,375 | 4,826 | 29,015 | 7,440 | 4,365 | 202,322 |
| Grinding balls | 4,134 | 117 | — | 29 | 72 | 6 | 33 | — | 1 | — | 22 | — | 280 |
| Blanks, nontectangular flat rolled | 47,822 | 50 | — | 2,907 | 1,323 | 3,853 | 1,076 | — | 32 | 19 | 52 | — | 9,312 |
| Conduit | 22,871 | — | — | 140 | 654 | — | 772 | 1 | — | — | 11 | 1 | 1,579 |
| Pipe and tube fittings | 106,848 | 2,614 | 38 | 7,045 | 3,373 | 2,066 | 1,042 | 524 | 1,943 | 5,689 | 3,888 | 190 | 28,412 |
| **Total Other Steel Products** | 1,662,344 | 19,225 | 8,516 | 126,996 | 26,265 | 66,467 | 24,037 | 23,875 | 31,124 | 66,600 | 38,821 | 26,567 | 458,489 |
| **Total Steel Products** | 22,354,660 | 49,553 | 1,060,413 | 579,806 | 1,247,583 | 396,975 | 286,701 | 284,861 | 179,408 | 515,692 | 404,836 | 230,895 | 5,236,722 |
| **Iron Products & Ferroalloys** | | | | | | | | | | | | | |
| Bar iron, iron slabs & blooms, etc. | 127 | — | — | 5 | 96 | — | — | — | — | 6 | — | — | 107 |
| Cast iron soil and pipe and fittings | 5,297 | 465 | — | 552 | 103 | — | — | — | — | 567 | 34 | — | 1,721 |
| Other cast iron pipe and fittings | 16,634 | 845 | — | 2,087 | 1,934 | 304 | 179 | — | 76 | 1,746 | 377 | 107 | 7,655 |
| Malleable cast iron pipe fittings | 20,965 | 231 | — | 4,496 | 1,583 | 921 | 54 | 36 | 8 | 671 | 815 | 146 | 8,961 |
| Castings and forgings | 200,631 | 4,475 | 598 | 34,384 | 4,964 | 13,670 | 10,416 | 5,607 | 3,899 | 8,303 | 937 | 925 | 88,178 |
| Pig iron | 294,967 | — | 1,592 | 151 | 11,956 | 2 | — | — | — | 12,349 | — | — | 26,050 |
| Sponge iron | 97,585 | 392 | — | 782 | 9,731 | 17,590 | — | — | 10 | 11 | — | 2 | 28,518 |
| Ferromanganese (manganese content) | 388,093 | — | 551 | — | 24,790 | 42,155 | — | — | 11,351 | — | — | — | 78,847 |
| Ferrosilicon (silicon content) | 218,576 | — | — | 86 | — | 7,876 | 494 | 283 | 4,110 | 1,520 | — | — | 14,369 |
| Ferrochromium (chromium content) | 387,867 | — | 21,390 | 120 | 2,077 | 27,926 | — | — | — | — | — | — | 51,513 |
| Other Ferroalloys | 252,399 | — | — | 203 | 4,117 | 66,737 | 20 | — | 1,402 | — | 7,579 | — | 80,058 |
| **Total Iron Products & Ferroalloys** | 1,883,140 | 6,408 | 24,130 | 42,867 | 61,352 | 177,179 | 11,163 | 5,926 | 20,856 | 25,172 | 9,743 | 1,180 | 385,977 |
| **Grand Total** | 24,237,800 | 55,961 | 1,084,543 | 622,673 | 1,308,935 | 574,154 | 297,864 | 290,787 | 200,264 | 540,864 | 414,579 | 232,075 | 5,622,699 |
| Iron and steel scrap | 723,562 | — | — | 17,951 | 5,563 | 94 | — | — | 155 | — | 9,175 | 1,011 | 33,949 |

# Table 23A *(continued)*

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net tons)**

| Products | GULF COAST-MEXICAN BORDER | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Mobile | New Orleans | Port Arthur | Houston | Dallas | Laredo | El Paso Nogales | Total |
| **Other Steel Products** | | | | | | | | |
| Structural shapes, fabricated | 1,102 | 33,315 | — | 33,749 | 21 | 1,260 | 350 | 69,797 |
| Shapes—Cold formed | — | — | — | — | 4 | — | — | 4 |
| Sashes and frames | 3 | 2 | — | 7 | — | 35 | 75 | 122 |
| Fence or sign posts | — | 71 | — | 71 | — | 1,609 | — | 1,751 |
| Wire—Nonmetallic covered | 21 | 105 | — | 49 | — | 20 | — | 195 |
| Wire rope | 3,177 | 23,036 | — | 20,829 | 92 | 1,269 | 28 | 48,431 |
| Wire strand | 4,928 | 10,362 | — | 41,921 | — | 183 | — | 57,394 |
| Welded wire fabric | — | 348 | — | 1,808 | 224 | 3,602 | 21 | 6,003 |
| Other nails and staples | 121 | 5,329 | — | 3,958 | 148 | 366 | 4 | 9,946 |
| Bale ties—Strip | — | — | — | — | — | — | — | — |
| Bolts, nuts and rivets | 7,343 | 13,882 | — | 33,074 | 2,917 | 1,811 | 107 | 59,134 |
| Grinding balls | — | — | — | — | — | 22 | — | 22 |
| Blanks, nonrectangular flat rolled | 15 | 24,221 | — | 3,632 | — | 651 | — | 28,519 |
| Conduit | 16,623 | 81 | — | 200 | — | — | — | 16,904 |
| Pipe and tube fittings | 1,698 | 10,294 | — | 32,533 | 389 | 663 | 9 | 45,586 |
| **Total Other Steel Products** | 35,032 | 121,044 | — | 171,832 | 3,795 | 11,510 | 594 | 343,808 |
| **Total Steel Products** | 524,078 | 1,990,906 | 87,432 | 2,344,694 | 31,897 | 338,964 | 11,467 | 5,329,432 |
| **Iron Products & Ferroalloys** | | | | | | | | |
| Bar iron, iron slabs & blooms, etc. | — | — | — | — | — | — | — | — |
| Cast iron soil pipe and fittings | — | 130 | — | 45 | 18 | — | — | 193 |
| Other cast iron pipe and fittings | — | 66 | — | 1,394 | 1 | 22 | — | 1,483 |
| Malleable cast iron pipe fittings | 1 | 408 | — | 1,121 | 375 | 413 | — | 2,318 |
| Castings and forgings | 411 | 6,636 | — | 28,883 | 433 | 1,740 | 2,794 | 40,897 |
| Pig iron | — | 149,910 | — | — | — | 4,103 | — | 154,013 |
| Sponge iron | — | — | — | — | — | — | — | — |
| Ferromanganese (manganese content) | 21,488 | 231,027 | — | — | — | 5 | — | 252,520 |
| Ferrosilicon (silicon content) | 4,030 | 144,759 | — | 2,636 | — | 22 | — | 151,447 |
| Ferrochromium (chromium content) | 19 | 324,084 | — | 19 | — | — | — | 324,122 |
| Other Ferroalloys | 15,581 | 126,256 | — | 2,262 | — | 506 | 3 | 144,608 |
| **Total Iron Products & Ferroalloys** | 41,530 | 983,276 | — | 36,360 | 827 | 6,811 | 2,797 | 1,071,601 |
| **Grand Total** | 565,608 | 2,974,182 | 87,432 | 2,381,054 | 32,724 | 345,775 | 14,264 | 6,401,033 |
| Iron and steel scrap | — | 35,739 | 62 | 1,438 | — | 57,658 | 18,587 | 113,484 |

# Table 23A *(continued)*

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net Tons)**

| Products | PACIFIC COAST | | | | | | OFF SHORE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | San Diego | Los Angeles | San Francisco | Columbia-Snake | Seattle | Total | Virgin Islands | Anch-orage | Hono-lulu | San Juan | Total |
| **Other Steel Products** | | | | | | | | | | | |
| Structural shapes, fabricated | 160 | 26,723 | 10,221 | 11,241 | 34,455 | **82,800** | | 82,875 | 1,325 | 1,849 | **86,049** |
| Shapes—Cold formed | — | 20 | 2 | — | 139 | **161** | — | — | — | — | — |
| Sashes and frames | 1 | 70 | 51 | — | 395 | **517** | 3 | 2 | -- | 1 | **6** |
| Fence or sign posts | 2,528 | 210 | — | — | — | **2,738** | — | — | — | 56 | **56** |
| Wire—Nonmetallic covered | — | 248 | 9 | 13 | 45 | **315** | — | 1 | — | 4 | **5** |
| Wire rope | 424 | 4,176 | 3,480 | 5,657 | 9,324 | **23,061** | — | 8 | 184 | 85 | **277** |
| Wire strand | 5 | 6,990 | 8,126 | 1,495 | 10,325 | **26,941** | — | 1 | 946 | 1,622 | **2,569** |
| Welded wire fabric | 1,350 | 3,836 | 269 | 38 | 8,678 | **14,171** | 93 | — | 412 | 2,233 | **2,738** |
| Other nails and staples | — | 7,703 | 1,794 | 206 | 1,482 | **11,185** | — | — | 25 | 491 | **516** |
| Bale ties—Strip | — | 615 | — | — | — | **615** | — | — | | | |
| Bolts, nuts and rivets | 541 | 132,799 | 14,242 | 16,717 | 53,697 | **217,996** | — | 23 | 116 | 694 | **833** |
| Grinding balls | — | 690 | — | — | 44 | **734** | — | — | — | 247 | **247** |
| Blanks, nonrectangular flat rolled | 1 | 1,333 | 472 | — | 5 | **1,811** | 1,596 | — | — | 356 | **1,952** |
| Conduit | 284 | 1,537 | 310 | 159 | 68 | **2,358** | — | — | — | 780 | **780** |
| Pipe and tube fittings | 11 | 14,367 | 1,975 | 2,245 | 1,638 | **20,236** | — | 40 | 40 | 143 | **223** |
| **Total Other Steel Products** | **5,305** | **201,316** | **40,951** | **37,770** | **120,295** | **405,639** | **1,692** | **82,950** | **3,049** | **8,561** | **96,251** |
| **Total Steel Products** | **28,395** | **2,801,398** | **811,412** | **437,354** | **475,879** | **4,554,440** | **4,131** | **170,512** | **27,023** | **348,753** | **550,415** |
| **Iron Products & Ferroalloys** | | | | | | | | | | | |
| Bar iron, iron slabs & blooms, etc | — | — | — | — | — | — | — | — | | | |
| Cast iron soil pipe and fittings | — | 2,402 | 57 | — | 38 | **2,497** | | — | — | | — |
| Other cast iron pipe and fittings | 314 | 3,973 | 463 | 93 | 292 | **5,135** | — | — | — | 16 | **16** |
| Malleable cast iron pipe fittings | — | 6,658 | 710 | 368 | 27 | **7,763** | — | — | — | 145 | **145** |
| Castings and forgings | 7,040 | 10,951 | 6,617 | 986 | 6,589 | **32,183** | -- | — | 10 | 437 | **447** |
| Pig iron | — | 9,209 | — | — | 7,280 | **16,489** | — | | — | — | — |
| Sponge iron | — | 425 | 3 | — | 25 | **453** | — | — | — | — | — |
| Ferromanganese (manganese content) | — | — | — | 5,309 | 551 | **5,860** | — | — | — | — | — |
| Ferrosilicon (silicon content) | — | 569 | 364 | 339 | 400 | **1,672** | — | — | — | — | — |
| Ferrochromium (chromium content) | 6 | 272 | 19 | 138 | — | **435** | — | — | — | — | — |
| Other Ferroalloys | — | 9,832 | 4,494 | 4,798 | 5,051 | **24,175** | — | — | — | — | — |
| **Total Iron Products & Ferroalloys** | **7,360** | **44,290** | **12,728** | **12,031** | **20,252** | **96,662** | -- | — | **10** | **598** | **608** |
| **Grand Total** | **35,755** | **2,845,688** | **824,140** | **449,385** | **496,131** | **4,651,102** | **4,131** | **170,512** | **27,033** | **349,351** | **551,023** |
| Iron and steel scrap | 3,770 | 664 | 1 | — | 144,254 | **148,689** | -- | — | 525 | 174 | **699** |

# Table 23A *(continued)*

## *Imports of Iron and Steel Products by Customs District—1986*

**(Net Tons)**

| Products | GREAT LAKES-CANADIAN BORDER | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Portland | St. Albans | Ogdensburg | Buffalo | Great Falls | Pembina | Duluth Mineapls | Milwaukee | Detroit | Chicago | Cleveland | St. Louis | Total |
| **Other Steel Products** | | | | | | | | | | | | | |
| Structural shapes, fabricated | 27,126 | 5,147 | 13,869 | 72,935 | 2,021 | 874 | 504 | 1 | 15,738 | 787 | 969 | 1,028 | 140,999 |
| Shapes—Cold formed | — | — | 24 | 1,200 | — | — | — | — | 390 | — | — | — | 1,614 |
| Sashes and frames | 2 | 270 | 69 | 909 | 634 | 207 | 43 | 2 | 502 | 154 | 30 | — | 2,822 |
| Fence or sign posts | 7 | — | 34 | 7 | — | — | 61 | — | 11 | 20 | — | — | 140 |
| Wire—Nonmetallic covered | — | 7 | 2 | 7 | 3 | 27 | 5 | — | 23 | 147 | 5 | 8 | 234 |
| Wire rope | 20 | 115 | 178 | 1,048 | 99 | 43 | 11 | — | 404 | 3,731 | 69 | 1,758 | 7,476 |
| Wire strand | — | 20 | 683 | 276 | — | 22 | 199 | — | 164 | 7,101 | 180 | 38 | 8,683 |
| Welded wire fabric | — | 4,525 | 1,792 | 3,207 | 8 | — | 146 | 48 | 990 | 246 | 200 | 40 | 11,202 |
| Other nails and staples | 14 | 34 | 682 | 944 | 1 | 8 | 6 | 44 | 227 | 1,685 | 164 | 419 | 4,228 |
| Bale ties—Strip | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Bolts, nuts and rivets | 78 | 1,780 | 20,280 | 15,761 | 143 | 189 | 1,496 | 667 | 42,438 | 65,150 | 7,620 | 2,439 | 158,041 |
| Grinding balls | — | — | 36 | 1,596 | — | — | — | — | 1,152 | 59 | 9 | — | 2,852 |
| Blanks, nonrectangular flat rolled | 25 | 89 | 17 | 117 | 2 | — | — | — | 1,591 | 3,544 | 843 | — | 6,228 |
| Conduit | 11 | 6 | 20 | 9 | — | — | — | — | 115 | 1,075 | 13 | — | 1,249 |
| Pipe and tube fittings | 208 | 166 | 884 | 839 | 203 | 44 | 146 | 1 | 1,485 | 8,003 | 314 | 96 | 12,389 |
| **Total Other Steel Products** | **27,491** | **12,160** | **38,567** | **98,855** | **3,115** | **1,415** | **2,618** | **764** | **65,229** | **91,699** | **10,415** | **5,826** | **358,157** |
| **Total Steel Products** | **40,449** | **145,399** | **302,994** | **1,134,085** | **27,118** | **66,991** | **62,203** | **37,400** | **2,628,041** | **1,400,490** | **787,566** | **50,904** | **6,683,640** |
| **Iron Products & Ferroalloys** | | | | | | | | | | | | | |
| Bar iron, iron slabs & blooms, etc. | — | — | — | — | — | — | — | — | — | 20 | — | — | 20 |
| Cast iron soil pipe and fittings | — | — | — | 502 | — | — | — | — | 372 | — | — | 13 | 887 |
| Other cast iron pipe and fittings | 41 | 8 | 179 | 298 | 4 | — | 11 | — | 199 | 1,041 | 558 | 5 | 2,344 |
| Malleable cast iron pipe fittings | — | — | 17 | 304 | 50 | — | — | 3 | 132 | 736 | 313 | 224 | 1,779 |
| Castings and forgings | 142 | 3,177 | 5,008 | 6,471 | 1,371 | — | 92 | 128 | 11,138 | 10,091 | 1,135 | 175 | 38,928 |
| Pig iron | — | 799 | 3,173 | 254 | — | — | — | 43,072 | 16,992 | 3,948 | 30,178 | — | 98,416 |
| Sponge iron | 21 | 1,524 | 12,223 | 12,614 | 3 | — | 6 | 1 | 19,581 | 343 | 22,298 | — | 68,614 |
| Ferromanganese (manganese content) | — | — | 106 | 1,466 | — | — | — | — | 11,254 | 18,311 | 19,727 | — | 50,864 |
| Ferrosilicon (silicon content) | — | — | 1,100 | 22,393 | — | 11,134 | — | 289 | 5,269 | 5,352 | 5,550 | — | 51,087 |
| Ferrochromium (chromium content) | — | — | — | 679 | — | — | — | — | — | 19 | 11,097 | — | 11,795 |
| Other Ferroalloys | — | 3 | 493 | 1,593 | — | — | — | 14 | 975 | 57 | 422 | — | 3,557 |
| **Total Iron Products & Ferroalloys** | **205** | **5,510** | **22,299** | **46,575** | **1,428** | **11,134** | **108** | **43,506** | **65,912** | **39,919** | **91,279** | **417** | **328,291** |
| **Grand Total** | **40,654** | **150,909** | **325,293** | **1,180,660** | **28,546** | **78,125** | **62,311** | **80,906** | **2,693,953** | **1,440,409** | **878,845** | **51,321** | **7,011,931** |
| Iron and steel scrap | 18 | 321 | 10,246 | 43,714 | 118 | 113 | 443 | 329 | 349,793 | 12 | 21,634 | — | 426,741 |

# RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book

# Table 24

*Raw Steel Production by Type of Furnace, Grade and Cast*

(Thousands of net tons)

| | Open Hearth | | | Basic Oxygen Process | | | Electric | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Carbon | Alloy | Total | Carbon | Alloy | Total | Carbon | Alloy | Stainless | Total |
| 1986 | 3,170 | 160 | 3,330 | 44,366 | 3,520 | 47,885 | 23,877 | 4,825 | 1,689 | 30,390 |
| 1985 | 6,005 | 423 | 6,428 | 47,688 | 4,197 | 51,885 | 23,006 | 5,257 | 1,683 | 29,946 |
| 1984 | 7,928 | 408 | 8,336 | 48,399 | 4,423 | 52,822 | 23,591 | 6,006 | 1,772 | 31,369 |
| 1983 | 5,703 | 248 | 5,951 | 48,115 | 3,934 | 52,050 | 19,965 | 4,900 | 1,750 | 26,615 |
| 1982 | 5,642 | 468 | 6,110 | 41,214 | 4,095 | 45,309 | 17,287 | 4,635 | 1,235 | 23,158 |
| 1981 | 12,195 | 1,257 | 13,452 | 65,701 | 7,530 | 73,231 | 23,566 | 8,836 | 1,743 | 34,145 |
| 1980 | 11,844 | 1,210 | 13,054 | 60,532 | 7,083 | 67,615 | 22,313 | 7,152 | 1,701 | 31,166 |
| 1979 | 17,200 | 1,958 | 19,158 | 75,334 | 7,922 | 83,256 | 23,692 | 8,128 | 2,107 | 33,927 |
| 1978 | 19,026 | 2,284 | 21,310 | 75,053 | 8,431 | 83,484 | 22,837 | 7,446 | 1,954 | 32,237 |
| 1977 | 18,045 | 1,998 | 20,043 | 70,551 | 6,857 | 77,408 | 19,534 | 6,486 | 1,862 | 27,882 |

# Table 24 *(continued)*

## *Raw Steel Production by Type of Furnace, Grade and Cast*

**(Thousands of net tons)**

| | Total All Grades | | | | Per Cent of Total | | | | | | Production by Type of Cast (Thousands of net tons) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | By Grade | | | By Type of Furnace | | | | | |
| | Carbon | Alloy | Stainless | Total | Carbon | Alloy | Stain-less | OH | BOP | Elec-tric | Ingots | Cont. Cast | Steel Cast |
| 1986 | 71,413 | 8,505 | 1,689 | 81,606 | 87.5 | 10.4 | 2.1 | 4.1 | 58.7 | 37.2 | 36,487 | 45,064 | 55 |
| 1985 | 76,699 | 9,877 | 1,683 | 88,259 | 86.9 | 11.2 | 1.9 | 7.3 | 58.8 | 33.9 | 49,035 | 39,161 | 63 |
| 1984 | 79,918 | 10,838 | 1,772 | 92,528 | 86.4 | 11.7 | 1.9 | 9.0 | 57.1 | 33.9 | 55,787 | 36,669 | 74 |
| 1983 | 73,783 | 9,082 | 1,750 | 84,615 | 87.2 | 10.7 | 2.1 | 7.0 | 61.5 | 31.5 | 57,385 | 27,174 | 56 |
| 1982 | 64,143 | 9,198 | 1,235 | 74,577 | 86.0 | 12.3 | 1.7 | 8.2 | 60.7 | 31.1 | 52,875 | 21,628 | 74 |
| 1981 | 101,462 | 17,623 | 1,743 | 120,828 | 84.0 | 14.6 | 1.4 | 11.1 | 60.6 | 28.3 | 94,516 | 26,138 | 173 |
| 1980 | 94,689 | 15,445 | 1,701 | 111,835 | 84.7 | 13.8 | 1.5 | 11.7 | 60.4 | 27.9 | 88,937 | 22,720 | 178 |
| 1979 | 116,226 | 18,008 | 2,107 | 136,341 | 85.3 | 13.2 | 1.5 | 14.0 | 61.1 | 24.9 | 113,084 | 23,043 | 215 |
| 1978 | 116,916 | 18,161 | 1,954 | 137,031 | 85.3 | 13.3 | 1.4 | 15.6 | 60.9 | 23.5 | 115,984 | 20,837 | 210 |
| 1977 | 108,130 | 15,341 | 1,862 | 125,333 | 86.3 | 12.2 | 1.5 | 16.0 | 61.8 | 22.2 | 109,416 | 15,728 | 188 |

# Table 25

*Raw Steel Production by States*

**(Thousands of net tons)**

| States | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| New York | 541 | 456 | 515 | 1,305 | 1,419 |
| Pennsylvania | 9,492 | 12,034 | 14,372 | 13,000 | 10,905 |
| R.I., Conn., N.J., Del., Md. | 4,589 | 4,610 | 5,134 | 3,985 | 4,063 |
| Va., W. Va., Ga., Fla., N.C., S.C., La. | 6,641 | 6,301 | 6,320 | 5,277 | 4,921 |
| Ala., Tenn., Ky., Miss., Ark. | 5,333 | 6,031 | 4,914 | 3,311 | 2,928 |
| Ohio | 14,522 | 14,094 | 15,438 | 14,586 | 12,181 |
| Indiana | 16,837 | 19,687 | 19,793 | 20,202 | 16,499 |
| Illinois | 6,414 | 6,479 | 6,504 | 5,410 | 5,091 |
| Michigan | 7,475 | 7,297 | 7,754 | 7,262 | 6,075 |
| Texas | 3,739 | 4,656 | 4,790 | 3,846 | 4,822 |
| Minn., Mo., Okla., Nebr., Iowa | 2,445 | 2,104 | 2,416 | 2,137 | 1,321 |
| Ariz., Col., Utah, Wash., Ore., Ca., Hawaii | 3,580 | 4,510 | 4,578 | 4,293 | 4,352 |
| **Total** | **81,606** | **88,259** | **92,528** | **84,615** | **74,577** |

# Table 26

*Monthly and Quarterly Raw Steel Production and Capability Utilization*

**(Thousands of net tons)**

| Periods | 1986 Net Tons | 1986 Capability Utilization* % | 1985 Net Tons | 1985 Capability Utilization* % | 1984 Net Tons | 1984 Capability Utilization* % | 1983 Net Tons | 1983 Capability Utilization* % | 1982 Net Tons | 1982 Capability Utilization* % |
|---|---|---|---|---|---|---|---|---|---|---|
| January | 7,666 | 69.4 | 6,984 | 60.9 | 7,970 | 69.6 | 5,570 | 43.4 | 7,737 | 59.3 |
| February | 7,171 | 71.8 | 6,851 | 66.1 | 8,142 | 76.0 | 5,676 | 49.0 | 7,178 | 60.9 |
| March | 7,947 | 71.9 | 8,269 | 72.1 | 9,056 | 79.1 | 7,127 | 55.5 | 8,049 | 61.7 |
| 1st Quarter | 22,808 | 71.5 | 22,083 | 66.3 | 25,057 | 74.6 | 18,382 | 49.3 | 22,970 | 60.7 |
| April | 7,787 | 73.5 | 7,872 | 71.6 | 8,997 | 80.8 | 7,292 | 58.9 | 7,006 | 55.2 |
| May | 7,616 | 69.5 | 7,830 | 68.9 | 9,174 | 79.8 | 7,412 | 57.9 | 6,678 | 50.9 |
| June | 6,730 | 63.5 | 7,292 | 66.3 | 7,945 | 71.4 | 6,993 | 56.5 | 6,050 | 47.7 |
| 2nd Quarter | 22,133 | 68.8 | 22,993 | 68.9 | 26,116 | 77.4 | 21,726 | 57.8 | 19,711 | 51.2 |
| First 6 months | 44,966 | 70.0 | 45,110 | 67.7 | 51,354 | 76.2 | 40,109 | 53.6 | 42,681 | 55.9 |
| July | 6,352 | 59.2 | 7,010 | 62.1 | 7,460 | 65.3 | 6,921 | 54.3 | 5,719 | 43.8 |
| August | 5,668 | 52.8 | 7,130 | 63.2 | 6,915 | 60.5 | 7,020 | 55.1 | 5,538 | 42.4 |
| September | 5,644 | 54.3 | 6,924 | 63.4 | 6,378 | 57.7 | 7,134 | 57.8 | 5,299 | 41.9 |
| 3rd Quarter | 17,665 | 55.4 | 21,064 | 62.9 | 20,752 | 61.2 | 21,076 | 55.7 | 16,555 | 42.7 |
| 9 months | 62,603 | 65.1 | 66,164 | 66.1 | 72,054 | 71.1 | 61,386 | 54.5 | 58,367 | 50.7 |
| October | 6,087 | 56.8 | 7,351 | 65.2 | 6,703 | 58.4 | 7,692 | 60.2 | 5,262 | 40.2 |
| November | 5,860 | 56.5 | 7,051 | 64.7 | 6,422 | 57.8 | 7,263 | 58.7 | 4,546 | 35.9 |
| December | 5,877 | 54.9 | 6,728 | 59.7 | 6,013 | 52.4 | 6,991 | 54.7 | 4,456 | 34.0 |
| 4th Quarter | 17,824 | 56.1 | 21,130 | 63.2 | 19,137 | 56.2 | 21,946 | 57.9 | 14,264 | 36.7 |
| Second 6 Months | 35,489 | 55.8 | 42,193 | 63.0 | 39,890 | 58.7 | 43,022 | 56.8 | 30,820 | 39.7 |
| **Year †** | **81,606** | **63.8** | **88,259** | **66.1** | **92,528** | **68.4** | **84,615** | **56.2** | **74,577** | **48.4** |

*Raw steel production capability varies in each calendar quarter and aggregated 154.0, 150.6, 135.3, 133.6, and 127.9 million net tons for the full years 1982, 1983, 1984, 1985 and 1986 respectively.

†Revised totals include adjustments not shown in monthly figures.

# BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

# Table 27

*Pig Iron Production, Consumption and Sales*

**(Thousands of Net tons)**

| Year | Total Blast Furnace Production | Consumption | | Outside Sales |
|---|---|---|---|---|
| | | Steelmaking | Other than Steelmaking* | |
| 1986 | 43,952 | 43,312 | 357 | 283 |
| 1985 | 50,446 | 49,547 | 619 | 435 |
| 1984 | 51,904 | 45,282 | 1,499 | 792 |
| 1983 | 48,706 | 45,783 | 868 | 658 |
| 1982 | 43,309 | 42,013 | 777 | 568 |
| 1981 | 73,570 | 70,858 | 3,055 | 1,228 |
| 1980 | 68,721 | 66,111 | 2,794 | 1,206 |
| 1979 | 87,003 | 83,307 | 3,984 | 1,855 |
| 1978 | 87,679 | 83,571 | 4,148 | 2,099 |
| 1977 | 81,328 | 77,141 | 3,711 | 2,106 |

*Includes sales for use outside the steel industry.

# Table 28

*Imports of Iron Ore By Countries of Origin*

**(Thousands of gross tons)**

| Country | 1986[P] | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Brazil | 3,693 | 2,540 | 2,542 | 1,276 | 972 |
| Canada | 8,651 | 8,557 | 11,161 | 8,832 | 9,281 |
| Liberia | 1,420 | 2,128 | 1,745 | 1,732 | 2,399 |
| Venezuela | 2,392 | 2,283 | 1,588 | 1,333 | 1,643 |
| Other | 593 | 457 | 124 | 73 | 206 |
| **Total** | **16,749** | **15,965** | **17,160** | **13,246** | **14,501** |

Source: Bureau of Mines

# Table 29

*Imports for Consumption of Manganese Ore by Countries of Origin (35 Percent or More Mn)**

**(MN content—Net tons)**

| Country | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Australia | 35,539 | 43,104 | 21,005 | 15,118 | 18,842 |
| Brazil | 44,561 | 59,816 | 34,748 | 39,112 | 2,962 |
| Gabon | 131,874 | 64,093 | 66,135 | 85,509 | 23,156 |
| Mexico | 14,770 | 23,222 | 16,428 | 25,598 | 1,492 |
| Republic of South Africa | 13,994 | | 17,286 | 12,703 | 57,872 |
| Other Countries | 3,515 | 55 | 40 | 20 | 6,730 |
| **Total** | **244,252** | **190,290** | **155,642** | **178,060** | **111,054** |

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Data may not add due to rounding.

Source: Bureau of Mines, Department of Interior

# Table 30

## *Consumption of Coal*

**(Thousands of net tons)**

| Year | In Production of | | Other Purposes | Total |
|---|---|---|---|---|
| | Coke | Steam* | | |
| 1986 | 28,836 | 2,206 | 240 | 31,282 |
| 1985 | 34,266 | 2,288 | 207 | 36,761 |
| 1984 | 35,815 | 2,368 | 212 | 38,395 |
| 1983 | 30,549 | 2,280 | 153 | 32,982 |
| 1982 | 34,130 | 2,297 | 179 | 36,606 |

*Includes coal consumed in generating electric power.

# Table 31

## *Consumption of Fluxes in Steelmaking*

**(Thousands of net tons)**

| Use | Fluorspar | Limestone | Lime | Other Fluxes | Total |
|---|---|---|---|---|---|
| 1986 | | | | | |
| In steelmaking furnaces | | | | | |
| Open hearth | 11 | 96 | 20 | 137 | 264 |
| Basic oxygen process | 94 | 535 | 2,968 | 446 | 4,043 |
| Electric | 41 | 178 | 937 | 262 | 1,418 |
| **Total** | **146** | **809** | **3,925** | **845** | **5,725** |
| 1985 | 388 | 760 | 4,611 | 778 | 6,537 |
| 1984 | 250 | 920 | 4,158 | 793 | 6,121 |
| 1983 | 194 | 730 | 4,336 | 652 | 5,912 |
| 1982 | 268 | 578 | 4,189 | 520 | 5,555 |

# Table 32

*Production, Receipts, Consumption and Shipments of Coke*

**(Thousands of net tons)**

| | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Production: | | | | | |
| Metallurgical | 20,527 | 23,708 | 25,271 | 22,466 | 24,518 |
| Other Coke | 184 | 240 | 386 | 244 | 227 |
| Total Production | 20,711 | 23,948 | 25,657 | 22,710 | 24,745 |
| Receipts, incl. imports | 4,005 | 5,009 | 5,163 | 4,161 | 2,704 |
| **Total Production and Receipts** | **24,716** | **28,957** | **30,820** | **26,871** | **27,449** |
| Consumption: | | | | | |
| Blast furnaces | 22,332 | 25,624 | 27,394 | 26,268 | 23,322 |
| Foundries & Other | 256 | 372 | 192 | 147 | 122 |
| Total Consumption | 22,588 | 25,996 | 27,586 | 26,415 | 23,444 |
| Shipments to outside companies | 955 | 2,012 | 2,280 | 3,038 | 1,042 |
| **Total Consumption and Shipments** | **23,543** | **28,008** | **29,866** | **29,453** | **24,486** |

# Table 33

## *Consumption of Ore and Agglomerated Products*

**(Thousands of net tons)**

| | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Consumed In | | | | | |
| Blast Furnaces: | | | | | |
| Natural Ore | 2,087 | 3,201 | N.A. | N.A. | N.A. |
| Pellets | 48,072 | 56,987 | 58,749 | 54,297 | 47,760 |
| Sinter, briquettes, nodules and other | 14,574 | 17,838 | 18,907 | 18,327 | 17,638 |
| **Total** | **64,733** | **78,026** | **77,656** | **72,624** | **65,398** |
| Steelmaking Furnaces-- | | | | | |
| Natural Ore | 72 | 99 | N.A. | N.A. | N.A. |
| Pellets | 34 | 68 | 56 | 45 | 115 |
| Sinter, briquettes, nodules and other | 28 | 90 | 37 | 14 | 4 |
| **Total** | **134** | **257** | **93** | **59** | **119** |
| **Total Consumption** | **64,867** | **78,283** | **77,749** | **72,683** | **65,517** |

# Table 34

## *Scrap Consumption by Grade*

**(Thousands of net tons)**

| | 1986[P] | 1985[R] | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Carbon steel: | | | | | |
| Low phosphorous plate and punching | 365 | 336 | 324 | 318 | 263 |
| Cut structurals and plate | 1,348 | 1,523 | 1,375 | 1,433 | 1,328 |
| No. 1 heavy melting steel | 14,414 | 16,941 | 17,091 | 15,871 | 13,895 |
| No. 2 heavy melting steel | 3,539 | 3,604 | 2,665 | 2,674 | 2,252 |
| No. 1 and electric furnace bundles | 6,883 | 7,072 | 8,111 | 7,648 | 5,932 |
| No. 2 and all other bundles | 888 | 1,105 | 1,060 | 1,003 | 1,072 |
| Turnings and borings | 998 | 1,069 | 954 | 844 | 995 |
| Slag scrap (Fe content) | 2,100 | 2,815 | 3,276 | 3,072 | 2,913 |
| Shredded or fragmentized | 4,272 | 4,043 | 3,134 | 2,280 | 2,126 |
| No. 1 busheling | 1,575 | 1,466 | 1,408 | 1,299 | 986 |
| All other carbon steel scrap | 8,782 | 8,468 | 7,415 | 7,442 | 6,987 |
| Total Carbon Steel | 45,164 | 48,442 | 46,813 | 43,884 | 38,749 |
| Stainless steel | 1,003 | 1,000 | 1,009 | 973 | 746 |
| Alloy steel (excl. stainless) | 1,147 | 1,256 | 1,315 | 1,131 | 1,030 |
| Iron scrap | 1,084 | 1,443 | 1,594 | 1,784 | 1,349 |
| Other grades or types of scrap | 1,036 | 1,059 | 1,055 | 1,225 | 1,825 |
| **Total scrap** | **49,434** | **53,201** | **51,786** | **48,996** | **43,698** |

*Source*: Bureau of Mines.
Data may not add to totals due to rounding.

# Table 35

## *Consumption of Scrap and Pig Iron By Types of Furnaces*

**(Thousands of net tons)**

| Year | Type of Furnace | Consumed | | | Scrap Stocks on Hand Year End |
|---|---|---|---|---|---|
| | | Scrap | Pig Iron | Total | |
| 1986[p] | Open hearth | 1,319 | 2,583 | 3,902 | |
| | Basic oxygen process | 13,257 | 37,334 | 50,591 | |
| | Electric | 32,197 | 127 | 32,324 | |
| | Cupola | 34 | 80 | 114 | |
| | Direct castings | — | 297 | 297 | |
| | Blast | 2,172 | — | 2,172 | |
| | Other (incl. air furnace) | 455 | 37 | 492 | |
| | | **49,434** | **40,458** | **89,692** | **3,379** |
| 1985[p] | Open hearth | 2,411 | 4,737 | 7,148 | |
| | Basic oxygen process | 15,339 | 44,515 | 59,854 | |
| | Electric | 32,252 | 5 | 32,257 | |
| | Cupola | 20 | 73 | 93 | |
| | Direct castings | — | 468 | 468 | |
| | Blast | 2,481 | — | 2,481 | |
| | Other (incl. air furnace) | 698 | 37 | 735 | |
| | **Total** | **53,201** | **49,833** | **103,034** | **3,964** |
| 1984 | Open hearth | 3,724 | 5,718 | 9,442 | |
| | Basic oxygen process | 16,447 | 45,551 | 61,998 | |
| | Electric | 28,244 | 22 | 28,266 | |
| | Cupola | 50 | 120 | 170 | |
| | Direct castings | — | 482 | 482 | |
| | Blast | 2,724 | — | 2,724 | |
| | Other (incl. air furnace) | 597 | 76 | 673 | |
| | **Total** | **51,786** | **51,969** | **103,755** | **4,448** |
| 1983 | Open hearth | 3,275 | 3,918 | 7,193 | |
| | Basic oxygen process | 16,219 | 44,330 | 60,549 | |
| | Electric | 25,786 | 52 | 25,838 | |
| | Cupola | 6 | 100 | 106 | |
| | Direct castings | — | 519 | 519 | |
| | Blast | 3,125 | — | 3,125 | |
| | Other (incl. air furnace) | 585 | 72 | 657 | |
| | **Total** | **48,996** | **48,991** | **97,987** | **4,953** |
| 1982 | Open hearth | 3,554 | 3,632 | 7,186 | |
| | Basic oxygen process | 14,059 | 38,553 | 52,612 | |
| | Electric | 22,766 | 210 | 22,976 | |
| | Cupola | 37 | 128 | 165 | |
| | Direct castings | — | 647 | 647 | |
| | Blast | 2,648 | — | 2,648 | |
| | Other (incl. air furnace) | 634 | 111 | 745 | |
| | **Total** | **43,698** | **43,281** | **86,979** | **5,807** |

*Source:* Bureau of Mines.

# Table 36

## *Consumption of Electric Power*

**(Millions of kilowatt hours)**

| Year | Generated | Purchased | Total |
|---|---|---|---|
| 1986 | 7,910 | 41,254 | 49,164 |
| 1985 | 8,820 | 44,060 | 52,880 |
| 1984 | 6,763 | 49,314 | 56,077 |
| 1983 | 5,922 | 36,473 | 42,395 |
| 1982 | 6,664 | 34,103 | 40,767 |

# Table 37

## *Consumption of Oxygen*

**(Millions of cubic feet in gaseous form)**

| | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Purchased | 136,881 | 146,148 | 162,388 | 145,325 | 132,659 |
| Produced (a) | 16,744 | 17,341 | 14,049 | 12,415 | 13,686 |
| Total | 153,625 | 163,489 | 176,437 | 157,740 | 146,345 |
| Used in | | | | | |
| Conditioning | 5,407 | 7,212 | 9,020 | 9,064 | 8,106 |
| Scrap preparation | 685 | 733 | 1,013 | 930 | 922 |
| Other burning and welding | 3,182 | 4,292 | 4,542 | 3,146 | 3,065 |
| Blast furnaces | 22,077 | 18,031 | 24,271 | 16,223 | 16,057 |
| Steelmaking | | | | | |
| Open hearth | 5,633 | 10,795 | 15,869 | 8,566 | 9,478 |
| Basic oxygen process | 94,168 | 100,721 | 101,921 | 99,608 | 89,809 |
| Electric | 16,226 | 14,702 | 12,323 | 9,682 | 8,453 |
| Total Steelmaking | 116,027 | 126,218 | 130,113 | 117,856 | 107,740 |
| Maintenance and construction | 311 | 357 | 609 | 1,098 | 1,236 |
| All other | 5,936 | 6,646 | 6,869 | 9,423 | 9,219 |
| **Total** | **153,625** | **163,489** | **176,437** | **157,740** | **146,345** |

(a) Produced on companies owned or leased facilities.
NOTE. Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

# Table 38

*Consumption of Fuels*

| Year | Purpose | | | | | |
|---|---|---|---|---|---|---|
| | Blast Furnace Area | | | | | |
| | Blast Furnaces | Other Uses* | Steel Melting Furnaces | Heating and Annealing Furnaces | Other | Total |
| | | | **Fuel Oil** (Thousand of gallons) | | | |
| 1986 | 149,364 | 3,975 | 23,081 | 52,687 | 76,668 | **305,775** |
| 1985 | 99,674 | 3,583 | 48,390 | 29,125 | 52,625 | **233,397** |
| 1984 | 131,437 | 6,982 | 54,339 | 56,379 | 72,763 | **321,900** |
| 1983 | 123,709 | 16,212 | 64,081 | 84,436 | 142,637 | **431,075** |
| 1982 | 111,971 | 9,509 | 59,484 | 94,393 | 99,122 | **374,479** |
| | | | **Tar and Pitch** (Thousands of gallons) | | | |
| 1986 | 5,248 | | | | | **5,248** |
| 1985 | 7,960 | | 7,098 | | | **15,058** |
| 1984 | 8,952 | | 15,690 | | | **24,642** |
| 1983 | 7,243 | | 11,831 | | 969 | **20,043** |
| 1982 | 21,317 | | 19,758 | | 3,485 | **44,560** |
| | | | **Liquid Petroleum Gas** (Thousands of gallons) | | | |
| 1986 | † | † | † | † | 1,187 | **1,187** |
| 1985 | † | † | † | † | 1,043 | **1,043** |
| 1984 | † | † | † | 355 | 1,496 | **1,851** |
| 1983 | † | † | † | 558 | 1,624 | **2,182** |
| 1982 | † | † | † | 1,300 | 3,096 | **4,396** |

* Includes coke oven underfiring.

† Included with "Other."

# Table 38 *(continued)*
## *Consumption of Fuels*

| Year | Purpose | | | | | |
|---|---|---|---|---|---|---|
| | Blast Furnace Area | | | | | |
| | Blast Furnaces | Other Uses* | Steel Melting Furnaces | Heating and Annealing Furnaces | Other | Total |
| | **Natural Gas** (Millions of cubic feet—based on 1,000 B.T.U. per cubic foot) | | | | | |
| 1986 | 23,650 | 5,991 | 15,182 | 175,295 | 88,793 | **308,911** |
| 1985 | 25,621 | 6,812 | 18,250 | 197,823 | 99,269 | **347,775** |
| 1984 | 29,235 | 10,542 | 20,688 | 228,082 | 102,676 | **391,223** |
| 1983 | 19,061 | 14,700 | 19,310 | 216,262 | 109,718 | **379,051** |
| 1982 | 19,160 | 22,150 | 20,530 | 219,371 | 130,134 | **411,345** |
| | **Coke Oven Gas** (Millions of cubic feet—based on 500 B.T.U. per cubic foot) | | | | | |
| 1986 | 16,705 | 131,828 | 1,896 | 86,945 | 74,741 | **312,115** |
| 1985 | 18,687 | 151,437 | 485 | 100,892 | 101,699 | **373,200** |
| 1984 | 17,185 | 163,465 | 1,897 | 105,554 | 105,461 | **393,562** |
| 1983 | 8,463 | 150,466 | 28 | 103,950 | 75,972 | **338,879** |
| 1982 | 7,106 | 168,798 | 1,796 | 123,357 | 109,613 | **410,670** |
| | **Blast Furnace Gas** (Millions of cubic feet—based on 95 B.T.U. per cubic foot) | | | | | |
| 1986 | 585,703 | 334,935 | 887 | 30,787 | 902,156 | **1,854,468** |
| 1985 | 815,434 | 610,696 | 1,298 | 37,827 | 877,346 | **2,342,601** |
| 1984 | 873,752 | 674,791 | 1,386 | 41,243 | 793,539 | **2,384,711** |
| 1983 | 844,815 | 602,573 | 1,386 | 25,139 | 720,452 | **2,194,365** |
| 1982 | 796,165 | 576,485 | 6,173 | 32,651 | 724,956 | **2,136,430** |

* Includes 200,911 coke oven underfiring in 1981, 128,211 in 1982, 110,782 in 1983, 130,211 in 1984, and 117,074 in 1985.

* Includes coke oven underfiring.

CANADIAN STATISTICS

# Table 39

## *Income, Dividends, Return on Sales and Stockholders' Equity*

**(Millions of Canadian dollars)**

**(Reported by companies comprising 76% of Canadian Raw Steel Production)**

| | 1986[P] | 1985[R] | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Statement of Income | | | | | |
| Revenues | | | | | |
| Sales (Net billing value of products shipped and other services) | $5,642.4 | $5,909.4 | $5,723.1 | $4,691.3 | $4,671.7 |
| Interest, dividends and other income | 75.0 | 70.1 | 49.1 | 11.6 | 25.8 |
| **Total Revenue** | **5,717.4** | **5,979.5** | **5,772.2** | **4,702.8** | **4,697.5** |
| Costs Applied to Billings and Other Services | | | | | |
| Employment costs | 1,355.0 | 1,468.8 | 1,431.1 | 1,259.3 | 1,259.2 |
| Materials, supplies, freight and other services,etc. | 3,691.6 | 3,691.6 | 3,591.3 | 3,058.5 | 3,110.6 |
| Depreciation, depletion and amortization | 275.5 | 264.9 | 268.1 | 245.5 | 242.7 |
| Interest and other financial costs | 176.9 | 165.0 | 171.6 | 172.6 | 153.0 |
| Taxes other than income | 27.1 | 25.2 | 22.3 | 21.6 | 31.1 |
| Taxes on income | 61.9 | 111.6 | 89.0 | (41.8) | (81.7) |
| Loss or (gain) on discontinued operations and sales of assets (a) | | | | | 5.5 |
| Unusual items | | | | 4 | |
| **Total Costs** | **5,588.1** | **5,727.1** | **5,573.4** | **4,716.1** | **4,720.4** |
| Extraordinary & other items net of taxes | (77.6) | (2.2) | (51.6) | | |
| **Net Income** | **$ 51.7** | **$ 250.2** | **$147.2** | **$ (13.3)** | **$ (22.9)** |
| Percent Cent Return on Sales | 0.9 | 4.2 | 2.6 | (0.3) | (0.5) |
| Percent Return on Stockholders' Equity (b) | 1.4 | 6.8 | 4.1 | (0.4) | N.A. |
| Cash Dividends Declared | $ 184.0 | $ 182.0 | $ 155.7 | $ 140.8 | $ 162.9 |
| Employees | 39,900 | 43,800 | 44,400 | 42,300 | N.A. |

(a) Includes only pretax (gains) or losses which were seperately disclosed in annual financial statements to stockholders.
(b) Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.

# Table 40

## *Balance Sheet*

**(Millions of Canadian dollars)**

**(Reported by companies comprising 76% of Canadian Raw Steel Production)**

| Assets | 1986[P] | 1985[R] | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Current Assets | | | | | |
| Cash and marketable securities | $ 516.4 | $ 755.1 | $ 355.4 | $ 458.3 | $ 250.2 |
| Receivables, less allowances | 787.1 | 832.6 | 779.5 | 691.2 | 539.3 |
| Inventories | 1,618.6 | 1,807.0 | 1,778.5 | 1,528.5 | 1,595.0 |
| Other Current Assets | 14.1 | 18.0 | 11.5 | 13.6 | 12.0 |
| **Total Current Assets** | **2,936.1** | **3,412.7** | **2,924.9** | **2,691.6** | **2,396.6** |
| Long term receivables and other investments | 190.6 | 292.5 | 280.4 | 307.8 | 33.9 |
| Fixed assets: | | | | | |
| Property, plant and equipment | 7,995.1 | 7,264.4 | 6,802.1 | 6,733.2 | 6,651.9 |
| Less—Depreciation, depletion and amortization | 3,631.4 | 3,301.7 | 3,046.8 | 2,801.4 | 2,273.8 |
| Net Fixed Assets | 4,363.7 | 3,962.7 | 3,755.3 | 3,931.8 | 4,378.1 |
| Other assets | 81.9 | 105.4 | 81.3 | 13.4 | 14.7 |
| **Total Assets** | **$7,572.3** | **$7,773.3** | **$7,041.8** | **$6,944.6** | **$6,823.3** |
| **Liabilities and Stockholders' Equity** | | | | | |
| Current Liabilities | | | | | |
| Accounts payable | $ 806.2 | $ 862.4 | $ 712.7 | $ 677.6 | * |
| Accrued taxes, including income taxes | 83.3 | 69.9 | 128.2 | 97.6 | $ 57.1 |
| Long-term debt maturing within one year | 66.7 | 46.1 | 43.3 | 33.7 | 29.1 |
| All other current liabilities | 37.5 | 92.3 | 34.1 | 181.8 | 627.2 |
| **Total Current Liabilities** | **993.7** | **1,070.8** | **918.3** | **990.7** | **713.4** |
| Long-term debt less amount maturing within one year | 1,586.6 | 1,666.7 | 1,526.1 | 1,447.9 | 1,478.4 |
| Other long-term liabilities and reserves | 931.8 | 886.4 | 832.6 | 860.7 | 924.5 |
| Redeemable preferred stock | 421.6 | 421.8 | 71.6 | 73.8 | N.A. |
| Stockholders' Equity | | | | | |
| Preferred stock | 713.6 | 718.2 | 801.8 | 806.4 | 941.4 |
| Common stock | 795.4 | 756.0 | 690.1 | 549.8 | 379.4 |
| Income reinvested in business | 2,129.6 | 2,253.5 | 2,201.3 | 2,215.3 | 2,386.2 |
| **Total Stockholders' Equity** | **$3,638.6** | **$3,727.6** | **$3,693.2** | **$3,571.5** | **$3,707.0** |
| **Total Liabilities and Stockholders' Equity** | **$7,572.3** | **$7,773.3** | **$7,041.8** | **$6,944.6** | **$6,823.3** |

*Included in All Other Current Liabilities

# Table 41

*Production of Pig Iron and Ferroalloys*

(Net tons)

| Year | Pig Iron | Ferroalloys | Total |
|---|---|---|---|
| 1986 | 10,194,655 | N/A | 10,194,655 |
| 1985 | 10,654,200 | N/A | 10,654,200 |
| 1984 | 10,629,765 | 221,800 | 10,851,565 |
| 1983 | 9,442,986 | 195,700 | 9,638,686 |
| 1982 | 8,818,564 | 203,378 | 9,021,942 |
| 1981 | 10,740,258 | 310,685 | 11,050,943 |
| 1980 | 12,007,067 | 318,901 | 12,325,968 |
| 1979 | 12,021,433 | 192,462 | 12,213,895 |
| 1978 | 11,395,988 | 265,042 | 11,661,030 |
| 1977 | 10,649,347 | 213,140 | 10,862,487 |

Source: Statistics Canada

# Table 42

*Materials Consumed by Blast Furnaces in the Production of Pig Iron*

| | Net Tons | | | Consumption per Ton of Pig Iron | | |
|---|---|---|---|---|---|---|
| Year | Ore, Cinder, etc. | Limestone | Coke | Ore, Cinder, etc. | Limestone | Coke |
| 1986 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1985 | 14,422,758 | 111,125 | 4,962,926 | 1.354 | 0.010 | 0.466 |
| 1984 | 16,787,673 | 173,327 | 5,131,838 | 1.579 | 0.016 | 0.483 |
| 1983 | 14,697,218 | 215,006 | 4,414,226 | 1.556 | 0.023 | 0.467 |
| 1982 | 13,610,281 | 193,297 | 4,139,690 | 1.543 | 0.022 | 0.469 |
| 1981 | 15,817,001 | 259,426 | 4,552,753 | 1.473 | 0.024 | 0.424 |
| 1980 | 17,372,626 | 345,971 | 5,343,851 | 1.447 | 0.029 | 0.445 |
| 1979 | 18,601,580 | 469,846 | 5,458,170 | 1.547 | 0.039 | 0.454 |
| 1978 | 17,215,864 | 430,699 | 4,925,123 | 1.511 | 0.038 | 0.432 |
| 1977 | 15,490,321 | 361,054 | 4,798,210 | 1.455 | 0.034 | 0.451 |

Source: Statistics Canada

# Table 43

*Raw Steel Production*

(Net tons)

| Year | Open Hearth | Basic Oxygen Process | Electric | Total | Steel for Castings* | Alloy Steel Incl. in Total | Continuous Cast Incl. in Total |
|---|---|---|---|---|---|---|---|
| 1986 | ** | 10,955,796 | 4,462,705 | 15,418,501 | 103,432 | N/A | 7,116,551 |
| 1985 | ** | 11,633,276 | 4,385,334 | 16,018,610 | 116,293 | 4,304,391 | 7,037,419 |
| 1984 | ** | 11,832,642 | 4,225,487 | 16,058,129 | 144,804 | 4,565,742 | 6,225,060 |
| 1983 | 1,014,966 | 9,364,629 | 3,650,893 | 14,030,488 | 114,752 | 4,023,272 | 5,292,981 |
| 1982 | 1,814,266 | 7,989,644 | 3,161,669 | 12,965,579 | 120,257 | 3,137,866 | 4,293,022 |
| 1981 | 2,203,771 | 9,567,252 | 4,363,641 | 16,134,664 | 191,747 | 4,528,032 | 5,258,275 |
| 1980 | 3,583,430 | 9,669,217 | 4,275,473 | 17,528,120 | 239,495*** | 2,871,060 | 4,489,581 |
| 1979 | 3,632,219 | 10,048,152 | 4,042,636 | 17,723,007 | 246,203 | 2,458,253 | 3,518,894 |
| 1978 | 3,338,969 | 9,274,452 | 3,809,307 | 16,422,728 | 187,936 | 2,009,373 | 3,319,119 |
| 1977 | 3,174,390 | 8,766,492 | 3,084,991 | 15,025,873 | 164,353 | 1,864,649 | 2,390,965 |

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.
**Included in Basic Oxygen.
***Included in total 1980 and prior years.

*Source*: Statistics Canada.

# Table 44

*Net Shipments of Rolled Steel Products*

**(Net tons)**

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Ingots and semifinished shapes | 297,654 | 406,540 | 594,400 | 824,174 | 578,736 |
| Rails and heavy structural shapes* | 605,989 | 586,312 | 573,348 | 505,527 | 454,257 |
| Wire rods | 1,255,526 | 1,154,729 | 1,199,146 | 1,129,709 | 989,851 |
| Structural shapes intermediate** | 362,852 | 352,425 | 324,346 | 287,179 | 238,106 |
| Bar sized shapes | 208,597 | 195,410 | 181,368 | 140,442 | 127,372 |
| Concrete reinforcing bars | 603,881 | 622,082 | 523,279 | 580,257 | 598,187 |
| Other hot rolled bars | 1,203,713 | 1,253,544 | 1,208,846 | 937,983 | 830,121 |
| Tie plates and track material | 42,264 | 54,163 | 75,271 | 55,080 | 63,033 |
| Plates (Incl. plates for pipe & tube) | 1,546,100 | 1,627,336 | 1,635,150 | 1,118,416 | 1,237,498 |
| Hot rolled sheets & strip | 3,130,728 | 3,020,767 | 3,047,059 | 2,328,771 | 2,203,371 |
| Cold finished bars | 144,003 | 130,642 | 135,967 | 99,227 | 75,258 |
| Cold reduced sheets and strip, cold rolled other*** | 1,560,742 | 1,559,933 | 1,521,493 | 1,396,012 | 1,339,205 |
| Tin Plate & T.F.S. | 521,592 | 554,255 | 539,990 | 570,873 | 545,214 |
| Galvanized sheets | 1,371,207 | 1,336,334 | 1,182,101 | 1,046,692 | 1,025,365 |
| **Total net shipments** | **12,854,848** | **12,854,472** | **12,741,764** | **11,020,342** | **10,305,574** |

Source: Statistics Canada

*Prior to 1980, included only rails

**Prior to 1980, included structural shapes and piling

***Prior to 1982, included tin plate & T.F.S.

# Table 44 *(continued)*

## *Net Shipments of Rolled Steel Products*

**(Net tons)**

| Products | 1981 | 1980 | 1979 | 1978 | 1977 |
|---|---|---|---|---|---|
| Ingots and semifinished shapes | 1,098,708 | 897,005 | 551,343 | 671,919 | 640,276 |
| Rails and heavy structural shapes* | 925,608 | 862,691 | 380,919 | 290,724 | 350,446 |
| Wire rods | 1,088,166 | 1,363,294 | 1,257,889 | 1,100,126 | 863,872 |
| Structural shapes intermediate** | 391,404 | 458,798 | 919,602 | 891,647 | 668,854 |
| Bar sized shapes | 182,561 | 177,693 | 230,484 | 215,002 | 156,311 |
| Concrete reinforcing bars | 750,665 | 843,294 | 584,086 | 633,338 | 545,742 |
| Other hot rolled bars | 1,126,657 | 1,105,299 | 1,343,722 | 1,260,283 | 1,098,700 |
| Tie plates and track material | 74,934 | 87,256 | 79,021 | 70,312 | 75,072 |
| Plates (incl. plates for pipe & tube) | 1,987,162 | 1,954,672 | 1,874,681 | 1,636,158 | 1,253,259 |
| Hot rolled sheets & strip | 2,506,978 | 2,557,134 | 2,818,510 | 2,728,914 | 2,691,196 |
| Cold finished bars | 104,763 | 108,224 | 130,704 | 108,942 | 93,973 |
| Cold reduced sheets and strip, cold rolled other*** | 1,941,128 | 2,037,874 | 2,134,726 | 2,107,878 | 1,955,483 |
| Galvanized sheets | 1,047,999 | 1,099,256 | 1,175,237 | 1,173,534 | 983,273 |
| **Total net shipments** | **13,226,733** | **13,552,490** | **13,480,924** | **12,888,777** | **11,376,457** |

Source: Statistics Canada

*Prior to 1980, included only rails

**Prior to 1980, included structural shapes and piling

***Prior to 1982, included tin plate and T.F.S.

# Table 45

## *Imports of Iron and Steel Products*

**(Net tons)**

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| **Steel Mill Products:** | | | | | |
| Ingots, blooms, billets, etc | 280,685 | 159,473 | 203,074 | 40,962 | 17,978 |
| Wire rods | 315,050 | 246,062 | 255,823 | 151,243 | 124,403 |
| Structural shapes (plain 3" and over) | 164,695 | 173,072 | 206,972 | 129,600 | 102,020 |
| Sheet piling | 2,181 | 9,458 | 8,625 | 10,570 | 8,387 |
| Plates | 184,976 | 255,052 | 208,856 | 151,775 | 225,364 |
| Rails and track accessories | 92,499 | 79,721 | 37,288 | 22,109 | 34,981 |
| Concrete reinforcing bars | 9,545 | 13,264 | 6,454 | 10,979 | 11,571 |
| Bar shapes under 3" | 52,109 | 70,652 | 48,274 | 35,632 | 18,030 |
| Bars—Hot rolled—Carbon | 62,355 | 56,613 | 77,683 | 58,068 | 36,565 |
| —Alloy | 35,918 | 57,994 | 85,033 | 71,526 | 56,949 |
| —Cold finished | 20,490 | 21,699 | 18,189 | 11,754 | 8,670 |
| Pipe and tubing | 275,231 | 500,712 | 344,557 | 238,641 | 273,923 |
| Wire drawn | 66,758 | 66,707 | 59,923 | 46,969 | 34,789 |
| Barbed wire | 1,564 | 3,820 | 3,345 | 1,858 | 2,360 |
| Wire nails | 17,821 | 11,784 | 16,940 | 15,372 | 11,918 |
| Tin plate | 4,972 | 588 | 2,384 | 2,425 | 4,835 |
| Terne plate | 17,296 | 18,807 | 20,228 | 20,332 | 14,050 |
| Sheets—Hot rolled | 194,229 | 426,326 | 159,203 | 143,322 | 91,448 |
| —Cold rolled | 281,579 | 232,142 | 197,975 | 120,439 | 99,248 |
| Sheet & strip (Coated, incl. galvanized) | 266,757 | 180,831 | 129,574 | 108,812 | 101,102 |
| All other sheet and strip | 30,557 | 40,807 | 30,806 | 27,019 | 42,333 |
| **Total Steel Mill Products** | **2,377,267** | **2,625,584** | **2,121,206** | **1,419,407** | **1,320,924** |
| **Other Steel Products:** | | | | | |
| Steel castings and forgings | 17,090 | 17,675 | 13,041 | 12,054 | 13,044 |
| Bars and rods, fabricated | 6,336 | 5,616 | 5,954 | 3,042 | 3,796 |
| Plates, flanged and dished | 1,694 | 1,906 | 1,643 | 1,804 | 3,565 |
| Plates, sheets and strip for saws | 2,276 | 3,015 | 3,830 | 2,969 | 2,455 |
| Plates, fabricated | 4,985 | 5,475 | 4,717 | 3,521 | 5,344 |
| Sheet and strip, fabricated | 18,615 | 12,498 | 10,127 | 7,916 | 7,835 |
| Structural shapes, fabricated | 9,156 | 3,183 | 2,972 | 3,029 | 4,194 |
| Wire strand | 6,488 | 8,854 | 6,963 | 5,648 | 4,873 |
| Wire rope | 23,003 | 19,611 | 16,039 | 15,283 | 12,318 |
| Grinding balls | 27,564 | 19,877 | 15,612 | 12,608 | 8,373 |
| **Total Other Steel Products** | **117,207** | **97,710** | **80,898** | **67,874** | **65,797** |
| **Total Steel Products** | **2,494,474** | **2,723,294** | **2,202,104** | **1,487,281** | **1,386,721** |
| **Iron Products and Ferroalloys:** | | | | | |
| Pig iron | 13,322 | 11,111 | 5,808 | 5,353 | 2,708 |
| Sponge iron | 1,793 | 2,662 | 3,195 | 2,082 | 2,456 |
| Castings and forgings | 29,663 | 22,192 | 34,772 | 29,502 | 15,385 |
| Pipes and tubes, cast iron | 2,674 | 1,224 | 3,821 | 1,030 | 1,291 |
| Ferroalloys | 96,094 | 87,403 | 109,896 | 78,394 | 68,079 |
| **Total Iron Products and Ferroalloys** | **143,536** | **124,592** | **157,492** | **116,361** | **89,919** |
| **Grand Total** | **2,638,010** | **2,847,886** | **2,359,596** | **1,603,642** | **1,476,640** |

Source: Statistics Canada

# Table 46

*Exports of Iron and Steel Products*

(Net tons)

| Products | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| **Steel Mill Products:** | | | | | |
| Ingots, blooms, billets, slabs, etc | 257,307 | 84,560 | 274,523 | 638,325 | 284,623 |
| Wire rods | 397,695 | 355,215 | 368,609 | 304,826 | 377,712 |
| Structural shapes and piling | 371,557 | 320,360 | 277,979 | 249,993 | 235,137 |
| Plates | 213,232 | 186,415 | 197,132 | 153,931 | 276,005 |
| Rail and track accessories | 75,001 | 50,139 | 72,632 | 20,545 | 61,915 |
| Bars—Hot rolled | 329,567 | 326,424 | 284,114 | 303,796 | 225,396 |
| —Cold finished | 46,181 | 32,244 | 32,299 | 19,406 | 15,035 |
| Pipe and tubing | 397,387 | 477,510 | 445,167 | 251,438 | 275,233 |
| Wire, plain and coated | 212,956 | 180,928 | 183,435 | 141,898 | 98,039 |
| Wire nails | 106,867 | 86,118 | 68,337 | 76,151 | 73,969 |
| Sheets and strip | 1,136,379 | 1,157,096 | 882,997 | 564,687 | 1,216,026 |
| Sheets and strip—Galvanized | 270,591 | 277,731 | 316,111 | 230,400 | 380,649 |
| **Total Steel Mill Products** | **3,814,720** | **3,534,740** | **3,403,335** | **2,955,396** | **3,519,739** |
| **Other Steel Products:** | | | | | |
| Bars and rods, fabricated | 25,025 | 20,403 | 14,369 | 9,908 | 6,269 |
| Grinding balls | 38 | 31 | 1,400 | 112 | 3,790 |
| Castings and forgings | 41,213 | 45,624 | 56,957 | 41,946 | 40,617 |
| Wire rope and strand | 5,922 | 9,306 | 7,357 | 5,245 | 8,087 |
| **Total Other Steel Products** | **72,198** | **75,364** | **80,083** | **57,211** | **58,763** |
| **Total Steel Products** | **3,886,918** | **3,610,104** | **3,483,418** | **3,012,607** | **3,578,502** |
| **Iron Products and Ferroalloys:** | | | | | |
| Pig iron | 572,720 | 632,850 | 432,256 | 383,913 | 535,304 |
| Sponge iron | 40,786 | 40,091 | 50,192 | 40,717 | 31,394 |
| Iron castings | 91,288 | 88,763 | 96,411 | 82,152 | 70,678 |
| Pipe and tubes, cast iron | 1,330 | 2,153 | 8,604 | 14,874 | 30,246 |
| Ferroalloys | 112,238 | 95,063 | 54,456 | 57,903 | 63,517 |
| **Total Iron Products and Ferroalloys** | **818,362** | **858,920** | **641,919** | **579,559** | **731,739** |
| **Grand Total** | **4,705,280** | **4,469,024** | **4,125,337** | **3,592,166** | **4,310,241** |

*Source:* Statistics Canada

# Table 47

*Consumption of Coal*

**(Thousands of net tons)**

| Year | In production of Coke | Total |
|---|---|---|
| 1986 | 6,672 | 6,674 |
| 1985 | 6,897 | 6,901 |
| 1984 | 7,212 | 7,214 |
| 1983 | 6,228 | 6,229 |
| 1982 | 5,500 | 5,504 |
| 1981 | 6,933 | 6,937 |
| 1980 | 7,624 | 7,627 |
| 1979 | 7,688 | 7,688 |
| 1978 | 7,528 | 7,532 |
| 1977 | 7,268 | 7,269 |

# Table 48

*Consumption of Coke*

**(Thousands of net tons)**

| Year | In Blast Furnaces* | Total |
|---|---|---|
| 1986 | 4,578 | 4,585 |
| 1985 | 5,009 | 5,011 |
| 1984 | 5,069 | 5,071 |
| 1983 | 4,635 | 4,636 |
| 1982 | 3,693 | 3,695 |
| 1981 | 4,283 | 4,285 |
| 1980 | 5,123 | 5,126 |
| 1979 | 4,859 | 4,863 |
| 1978 | 4,906 | 4,908 |
| 1977 | 4,838 | 4,839 |

*Blast furnaces producing pig iron and ferroalloys

# Table 49

## *Consumption of Fuel Oil*

(Thousands of gallons)

| Year | In Melting Furnaces | In Heating and Annealing Furnaces | Other Purposes | Total |
|---|---|---|---|---|
| 1986 | 36,763 | 11,096 | 13,276 | 61,135 |
| 1985 | 34,044 | 15,037 | 10,901 | 59,982 |
| 1984 | 49,668 | 19,555 | 6,339 | 75,562 |
| 1983 | 55,577 | 19,329 | 5,802 | 80,708 |
| 1982 | 73,801 | 20,227 | 10,793 | 104,821 |
| 1981 | 148,967 | 17,692 | 7,421 | 174,080 |
| 1980 | 145,451 | 21,088 | 17,030 | 183,569 |
| 1979 | 162,770 | 25,779 | 5,647 | 194,196 |
| 1978 | 191,621 | 30,317 | 15,145 | 237,083 |
| 1977 | 158,013 | 30,111 | 8,356 | 196,480 |

# Table 50

## *Consumption of Fluxes in Steelmaking Furnaces*

(Thousands of net tons)

| Year | Fluorspar | Limestone | Lime | Other Fluxes | Total |
|---|---|---|---|---|---|
| 1986 | 17 | 57 | 805 | 197 | 1,076 |
| 1985 | 21 | 73 | 763 | 229 | 1,086 |
| 1984 | 28 | 75 | 767 | 179 | 1,049 |
| 1983 | 24 | 67 | 748 | 159 | 998 |
| 1982 | 26 | 88 | 678 | 132 | 924 |
| 1981 | 29 | 89 | 786 | 122 | 1,026 |
| 1980 | 38 | 112 | 764 | 121 | 1,035 |
| 1979 | 33 | 130 | 821 | 131 | 1,115 |
| 1978 | 37 | 157 | 801 | 147 | 1,092 |
| 1977 | 30 | 90 | 756 | 145 | 1,020 |

# Table 51

## *Consumption of Oxygen*

**(Millions of cubic feet)**

| | 1986 | 1985 | 1984 | 1983 | 1982 |
|---|---|---|---|---|---|
| Consumption By Uses: | | | | | |
| Conditioning | 1,599 | 1,613 | 1,470 | 1,383 | 1,206 |
| Scrap preparation | 292 | 331 | 346 | 348 | 289 |
| Other burning and welding | 154 | 176 | 184 | 160 | 185 |
| Blast furnaces | 1,695 | 1,243 | 1,137 | 1,086 | 941 |
| Steelmaking: | | | | | |
| Open hearth | + | + | 2,374 | 1,367 | 3,196 |
| Basic oxygen process & Electric | 21,791 | 22,752 | 19,915 | 17,849 | 15,024 |
| Total steelmaking | 21,791 | 22,752 | 22,289 | 19,216 | 18,220 |
| Maintenance & construction | 54 | 31 | 29 | 26 | 21 |
| All other | 1,074 | 915 | 1,174 | 1,532 | 2,148 |
| **Total** | **26,659** | **27,062** | **26,629** | **23,751** | **22,990** |

+ Included with Basic Oxygen and Electric

# Table 52

## *Consumption of Pig Iron*

**(Thousands of net tons)**

| Year | Steelmaking | Other Than Steelmaking | Total |
|---|---|---|---|
| 1986 | 9,374 | 41 | 9,415 |
| 1985 | 9,882 | 64 | 9,946 |
| 1984 | 9,975 | 223 | 10,198 |
| 1983 | 8,801 | 169 | 8,970 |
| 1982 | 8,154 | 134 | 8,288 |

# WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by Statistics Canada, and the International Iron and Steel Institute.

# Table 53

*World Production of Pig Iron by Countries*

**(Thousands of net tons)**

| Countries | 1986[P] Tons | % | 1985[R] Tons | % | 1984 Tons | % | 1983 Tons | % | 1982 Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| **North America** | | | | | | | | | | |
| United States | 43,952 | 8.1 | 50,446 | 9.2 | 51,904 | 9.6 | 48,706 | 9.6 | 43,309 | 8.6 |
| Canada | 10,195 | 1.9 | 10,654 | 1.9 | 10,630 | 2.0 | 9,443 | 1.9 | 8,819 | 1.8 |
| **Total** | **54,147** | **10.0** | **61,100** | **11.1** | **62,534** | **11.6** | **58,149** | **11.5** | **52,128** | **10.4** |
| **Latin America** | | | | | | | | | | |
| Argentina | 1,807 | | 1,443 | | 984 | | 1,006 | | 1,121 | |
| Brazil | 17,458 | | 20,901 | | 18,993 | | 14,269 | | 11,936 | |
| Chile | 651 | | 634 | | 655 | | 595 | | 499 | |
| Columbia | 352 | | 271 | | 298 | | 295 | | 265 | |
| Mexico | 4,109 | | 3,891 | | 4,265 | | 3,898 | | 3,961 | |
| Peru | 238 | | 180 | | | | 125 | | 179 | |
| Venezuela | 541 | | 485 | | 358 | | 186 | | 223 | |
| **Total** | **25,156** | **4.7** | **27,805** | **5.1** | **25,553** | **4.7** | **20,375** | **4.0** | **18,182** | **3.6** |
| **Europe** | | | | | | | | | | |
| **Western Europe** | | | | | | | | | | |
| **EEC** | | | | | | | | | | |
| Belgium | 8,913 | | 9,642 | | 9,933 | | 8,855 | | 8,632 | |
| Luxembourg | 2,924 | | 3,036 | | 3,051 | | 2,553 | | 2,852 | |
| France | 15,117 | | 16,608 | | 16,214 | | 14,881 | | 16,220 | |
| Italy | 13,115 | | 12,851 | | 12,821 | | 11,368 | | 12,717 | |
| Netherlands | 5,101 | | 5,312 | | 5,430 | | 4,130 | | 3,987 | |
| West Germany | 31,517 | | 34,757 | | 33,293 | | 29,319 | | 30,447 | |
| United Kingdom | 10,707 | | 11,444 | | 10,458 | | 10,446 | | 9,179 | |
| Greece | | | | | | | 138 | | 110 | |
| Total EEC | 93,153 | 17.3 | 93,650 | 17.0 | 91,200 | 16.9 | 81,690 | 16.1 | 84,144 | 16.7 |
| **Other Western Europe** | | | | | | | | | | |
| Austria | 3,692 | | 4,083 | | 4,128 | | 3,660 | | 3,434 | |
| Finland | 2,180 | | 2,095 | | 2,242 | | 2,092 | | 2,143 | |
| Norway | 628 | | 668 | | 605 | | 657 | | 534 | |
| Portugal** | 465 | | 572 | | 522 | | 391 | | 236 | |
| Spain** | 5,294 | | 6,037 | | 5,884 | | 5,973 | | 6,612 | |
| Sweden | 2,684 | | 2,672 | | 2,440 | | 2,217 | | 1,961 | |
| Switzerland | 72 | | 73 | | 60 | | 11 | | 11 | |
| Turkey | 4,041 | | 3,520 | | 3,199 | | 2,997 | | 2,396 | |
| Yugoslavia * | 3,381 | | 3,439 | | 3,147 | | 3,126 | | 2,978 | |
| Total Other Western Europe | 16,678 | 3.1 | 23,159 | 4.2 | 22,227 | 4.1 | 21,124 | 4.2 | 20,304 | 4.0 |
| **Total Western Europe** | **109,831** | **20.4** | **116,809** | **21.2** | **113,427** | **21.0** | **102,815** | **20.3** | **104,448** | **20.7** |

* Communist Bloc
** 1986 included in EEC total

# Table 53 *(continued)*

## *World Production of Pig Iron by Countries*

**(Thousands of net tons)**

| Countries | 1986[P] Tons | % | 1985[R] Tons | % | 1984 Tons | % | 1983 Tons | % | 1982 Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| **Eastern Europe** | | | | | | | | | | |
| (Communist Bloc) | | | | | | | | | | |
| Bulgaria | 1,764 | | 1,887 | | 1,745 | | 1,802 | | 1,724 | |
| Czechoslovakia | 10,582 | | 10,540 | | 10,539 | | 10,434 | | 10,499 | |
| East Germany | 2,894 | | 2,842 | | 2,601 | | 2,433 | | 2,369 | |
| Hungary | 2,287 | | 2,317 | | 2,310 | | 2,270 | | 2,426 | |
| Poland | 11,243 | | 10,401 | | 10,513 | | 9,028 | | 9,521 | |
| Rumania | 10,472 | | 10,154 | | 10,535 | | 13,881 | | 14,391 | |
| U.S.S.R. | 125,221 | | 121,228 | | 122,237 | | 121,752 | | 117,641 | |
| **Total Eastern Europe** | **164,463** | **30.5** | **159,369** | **29.0** | **160,480** | **29.7** | **161,600** | **31.8** | **158,570** | **31.5** |
| **Total Europe** | **274,294** | **50.9** | **276,178** | **50.2** | **273,907** | **50.7** | **264,415** | **52.1** | **263,018** | **52.2** |
| **Africa** | | | | | | | | | | |
| Zimbabwe | 710 | | 743 | | 441 | | 644 | | 527 | |
| South Africa, Republic of | 6,365 | | 5,553 | | 6,097 | | 5,748 | | 7,454 | |
| Algeria | 1,213 | | 1,213 | | 1,213 | | 1,213 | | 1,209 | |
| Tunisia | 165 | | 165 | | 165 | | 162 | | 107 | |
| Other | 22 | | 22 | | 22 | | 22 | | 22 | |
| **Total** | **8,475** | **1.6** | **7,696** | **1.4** | **7,938** | **1.5** | **7,789** | **1.5** | **9,319** | **1.8** |
| **Middle East** | | | | | | | | | | |
| Iran | 276 | | 276 | | 276 | | 265 | | 243 | |
| United Arab Republic (Egypt) | 1,047 | | 1,047 | | 1,060 | | 716 | | 728 | |
| **Total** | **1,323** | **0.2** | **1,323** | **0.2** | **1,336** | **0.2** | **981** | **0.2** | **971** | **0.2** |
| **Far East** | | | | | | | | | | |
| India | 11,584 | | 10,847 | | 10,455 | | 10,099 | | 10,626 | |
| Japan | 82,288 | | 88,811 | | 88,628 | | 80,397 | | 85,599 | |
| South Korea | 9,924 | | 9,737 | | 9,659 | | 8,845 | | 9,307 | |
| Taiwan | 4,123 | | 3,780 | | 3,624 | | 3,764 | | 2,971 | |
| Thailand | 11 | | 11 | | 11 | | 22 | | 22 | |
| **Total** | **107,930** | **20.0** | **113,186** | **20.6** | **112,377** | **20.8** | **103,127** | **20.3** | **108,525** | **21.6** |
| **Far East** | | | | | | | | | | |
| (Communist Bloc) | | | | | | | | | | |
| China | 51,808 | | 47,997 | | 44,160 | | 41,204 | | 39,143 | |
| North Korea | 9,370 | | 8,543 | | 6,338 | | 6,063 | | 5,787 | |
| **Total** | **61,178** | **11.4** | **56,540** | **10.3** | **50,498** | **9.4** | **47,267** | **9.3** | **44,930** | **8.9** |
| **Oceania** | | | | | | | | | | |
| Australia | **6,452** | **1.2** | **6,172** | **1.1** | **5,869** | **1.1** | **5,580** | **1.1** | **6,562** | **1.3** |
| **Total World** | **538,955** | **100.0** | **550,000** | **100.0** | **540,012** | **100.0** | **507,683** | **100.0** | **503,635** | **100.0** |

NOTE: Detail does not necessarily add to totals.

Source: United States—American Iron and Steel Institute; Canada—Statistics Canada; Other Countries—International Iron and Steel Institute.

# Table 54

## *World Production of Raw Steel by Countries*

**(Thousands of net tons)**

| Countries | 1986[P] Tons | % | 1985[R] Tons | % | 1984 Tons | % | 1983 Tons | % | 1982 Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| **North America** | | | | | | | | | | |
| United States | 81,606 | 10.4 | 88,259 | 11.1 | 92,528 | 11.8 | 84,615 | 11.6 | 74,577 | 10.5 |
| Canada | 15,419 | 2.0 | 16,019 | 2.0 | 16,058 | 2.1 | 14,030 | 1.9 | 12,966 | 1.8 |
| **Total** | **97,025** | **12.4** | **104,278** | **13.1** | **108,586** | **13.9** | **98,645** | **13.5** | **87,543** | **12.3** |
| **Latin America** | | | | | | | | | | |
| Argentina | 3,575 | | 3,247 | | 2,918 | | 3,243 | | 3,211 | |
| Brazil | 23,406 | | 22,546 | | 20,266 | | 16,172 | | 14,324 | |
| Chile | 775 | | 751 | | 761 | | 674 | | 532 | |
| Columbia | 661 | | 579 | | 553 | | 510 | | 451 | |
| Cuba * | 459 | | 441 | | 373 | | 331 | | 364 | |
| Mexico | 7,901 | | 8,004 | | 8,247 | | 7,625 | | 7,778 | |
| Peru | 537 | | 456 | | 371 | | 319 | | 303 | |
| Venezuela | 3,810 | | 3,368 | | 3,053 | | 2,557 | | 2,511 | |
| Others | 564 | | 353 | | 366 | | 407 | | 396 | |
| **Total** | **41,688** | **5.3** | **39,745** | **5.0** | **36,908** | **4.7** | **31,838** | **4.4** | **29,870** | **4.2** |
| **Europe** | | | | | | | | | | |
| **Western Europe** | | | | | | | | | | |
| **EEC** | | | | | | | | | | |
| Belgium-Luxembourg | 11,813 | | 16,124 | | 16,851 | | 14,826 | | 14,883 | |
| Denmark | 697 | | 582 | | 604 | | 543 | | 617 | |
| France | 19,734 | | 20,740 | | 20,944 | | 19,381 | | 20,285 | |
| West Germany | 40,935 | | 44,640 | | 43,418 | | 39,384 | | 39,551 | |
| Ireland | 229 | | 224 | | 183 | | 155 | | 67 | |
| Italy | 25,207 | | 26,314 | | 26,524 | | 24,042 | | 26,466 | |
| Netherlands | 5,823 | | 6,081 | | 6,326 | | 4,942 | | 4,799 | |
| United Kingdom | 16,326 | | 17,330 | | 16,668 | | 16,539 | | 15,107 | |
| Greece | 1,113 | | 1,086 | | 990 | | 957 | | 1,003 | |
| **Total EEC** | **135,855** | **17.3** | **133,121** | **16.8** | **132,507** | **16.9** | **120,749** | **16.5** | **122,779** | **17.3** |
| **Other Western Europe** | | | | | | | | | | |
| Austria | 4,731 | | 5,137 | | 5,368 | | 4,862 | | 4,694 | |
| Finland | 2,851 | | 2,776 | | 2,909 | | 2,663 | | 2,661 | |
| Norway | 937 | | 1,041 | | 1,010 | | 988 | | 830 | |
| Portugal** | 776 | | 740 | | 772 | | 739 | | 578 | |
| Spain** | 13,202 | | 15,689 | | 14,878 | | 14,340 | | 14,491 | |
| Sweden | 5,192 | | 5,305 | | 5,186 | | 4,641 | | 4,299 | |
| Switzerland | 1,113 | | 1,088 | | 1,078 | | 920 | | 920 | |
| Turkey | 6,587 | | 5,456 | | 4,773 | | 4,227 | | 3,134 | |
| Yugoslavia * | 4,980 | | 4,938 | | 4,669 | | 4,557 | | 4,232 | |
| **Total Other Western Europe** | **26,391** | **3.4** | **42,170** | **5.3** | **40,643** | **5.2** | **37,937** | **5.2** | **35,839** | **5.0** |
| **Total Western Europe** | **162,246** | **20.7** | **175,291** | **22.1** | **173,150** | **22.1** | **158,686** | **21.7** | **158,618** | **22.3** |

* Communist Bloc

**1986 included in EEC total

# Table 54 *(continued)*

## *World Production of Raw Steel by Countries*

**(Thousands of net tons)**

| Countries | 1986[P] Tons | % | 1985[R] Tons | % | 1984 Tons | % | 1983 Tons | % | 1982 Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| **Eastern Europe** | | | | | | | | | | |
| (Communist Bloc) | | | | | | | | | | |
| Bulgaria | 3,114 | | 3,225 | | 3,172 | | 3,114 | | 2,851 | |
| Czechoslovakia | 16,672 | | 16,574 | | 16,348 | | 16,561 | | 16,570 | |
| East Germany | 8,736 | | 8,655 | | 8,348 | | 7,958 | | 7,901 | |
| Hungary | 4,106 | | 4,020 | | 4,135 | | 3,987 | | 4,081 | |
| Poland | 18,960 | | 17,776 | | 18,224 | | 17,897 | | 16,309 | |
| Rumania | 15,763 | | 15,206 | | 15,914 | | 13,881 | | 14,391 | |
| U S S R | 176,919 | | 170,474 | | 170,008 | | 168,113 | | 162,207 | |
| **Total Eastern Europe** | **244,270** | **31.1** | **235,930** | **29.8** | **236,149** | **30.2** | **231,511** | **31.7** | **224,308** | **31.6** |
| **Total Europe** | **406,516** | **51.8** | **111,221** | **51.9** | **409,299** | **52.3** | **390,197** | **53.4** | **382,926** | **53.9** |
| **Africa** | | | | | | | | | | |
| Zimbabwe | 743 | | 806 | | 466 | | 713 | | 606 | |
| Republic of South Africa | 9,981 | | 9,377 | | 8,523 | | 7,721 | | 9,039 | |
| Others | 1,164 | | 1,211 | | 1,114 | | 1,235 | | 1,077 | |
| **Total** | **11,888** | **1.5** | **11,394** | **1.4** | **10,103** | **1.3** | **9,669** | **1.3** | **10,722** | **1.5** |
| **Middle East** | | | | | | | | | | |
| Egypt | 1,102 | | 1,047 | | 1,268 | | 937 | | 1,047 | |
| Saudi Arabia | 1,213 | | 1,219 | | 928 | | 441 | | | |
| Iran | 1,323 | | 1,323 | | 1,323 | | 1,323 | | 1,323 | |
| Others | 901 | | 918 | | 849 | | 829 | | 862 | |
| **Total** | **4,539** | **0.6** | **4,507** | **0.5** | **4,368** | **0.6** | **3,530** | **0.5** | **3,232** | **0.5** |
| **Asia** | | | | | | | | | | |
| India | 13,087 | | 12,724 | | 11,628 | | 11,284 | | 12,122 | |
| Japan | 108,329 | | 116,049 | | 116,387 | | 107,109 | | 109,732 | |
| South Korea | 16,044 | | 14,924 | | 14,367 | | 13,134 | | 12,961 | |
| Taiwan | 6,112 | | 5,609 | | 5,520 | | 5,546 | | 4,577 | |
| Others | 4,769 | | 4,196 | | 3,252 | | 2,706 | | 2,444 | |
| **Total** | **148,341** | **18.9** | **153,502** | **19.4** | **151,154** | **19.3** | **139,779** | **19.1** | **141,836** | **20.0** |
| **Asia** | | | | | | | | | | |
| (Communist Bloc) | | | | | | | | | | |
| China | 57,209 | | 51,504 | | 47,751 | | 44,114 | | 40,915 | |
| North Korea | 9,921 | | 9,259 | | 7,165 | | 6,724 | | 6,392 | |
| **Total** | **67,130** | **8.5** | **60,763** | **7.7** | **54,916** | **7.0** | **50,838** | **6.9** | **47,308** | **6.6** |
| **Oceania** | | | | | | | | | | |
| Australia | 7,357 | | 7,285 | | 6,947 | | 6,176 | | 7,023 | |
| New Zealand | 316 | | 250 | | 309 | | 258 | | 278 | |
| **Total** | **7,673** | **1.0** | **7,535** | **1.0** | **7,256** | **0.9** | **6,434** | **0.9** | **7,301** | **1.0** |
| **Total Free World** | **467,961** | **59.6** | **490,873** | **61.9** | **486,483** | **62.2** | **443,693** | **60.7** | **434,525** | **61.1** |
| **Total Communist Bloc** | **316,839** | **40.4** | **302,072** | **38.1** | **296,107** | **37.8** | **287,237** | **39.3** | **276,213** | **38.9** |
| **Total World** | **784,800** | **100.0** | **792,945** | **100.0** | **782,590** | **100.0** | **730,930** | **100.0** | **710,738** | **100.0** |

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows: 1986—877[P]; 1985—940; 1984—940; 1983—729; 1982—1,017; (in thousands of net tons).

SOURCE: United States—American Iron and Steel Institute; Canada—Statistics Canada; Other Countries—International Iron and Steel Institute.

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